FIG. 1A (Prior Art)

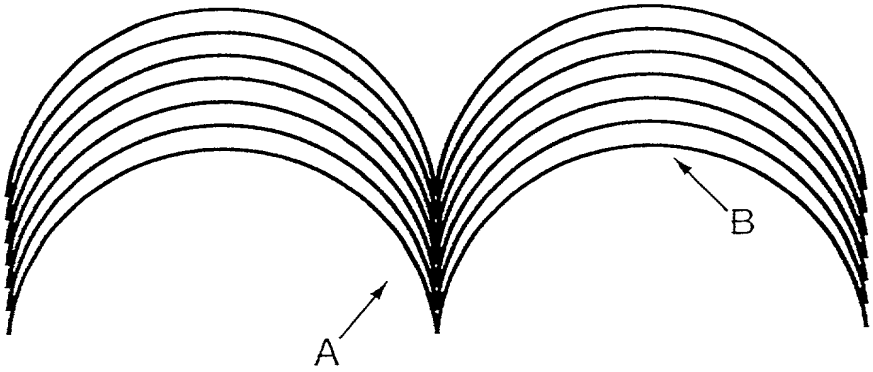

FIG. 1B (Prior Art)

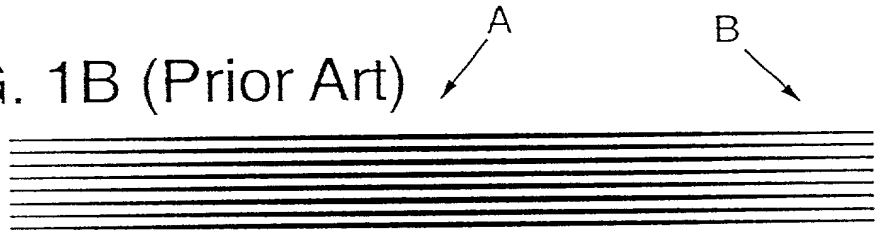

FIG. 2

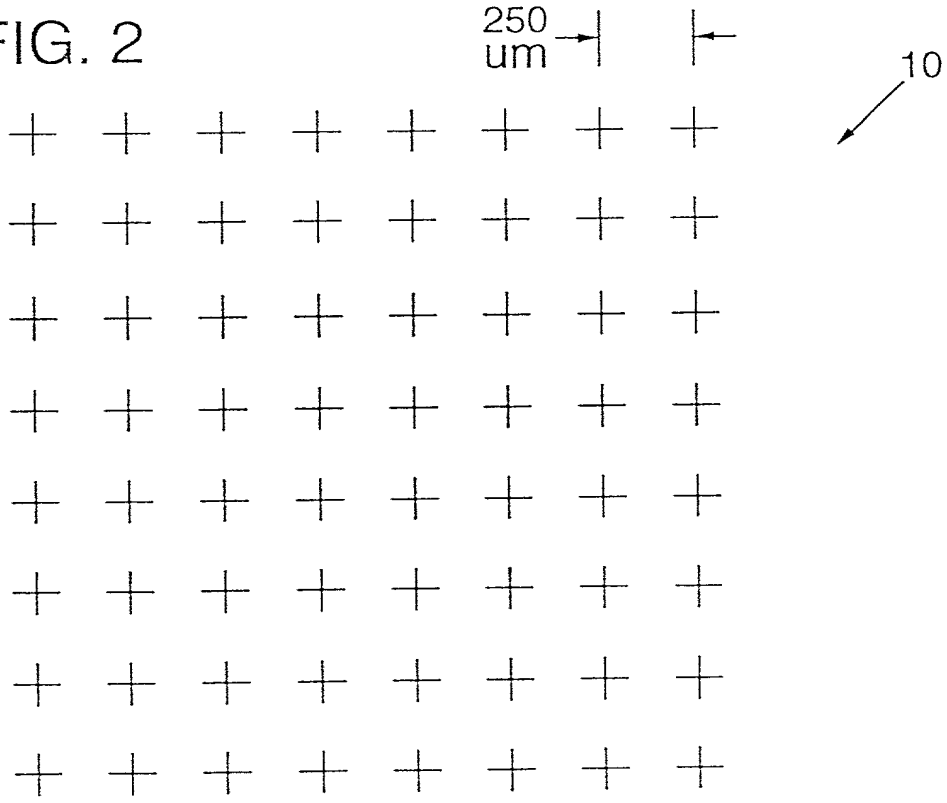

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FIG. 3

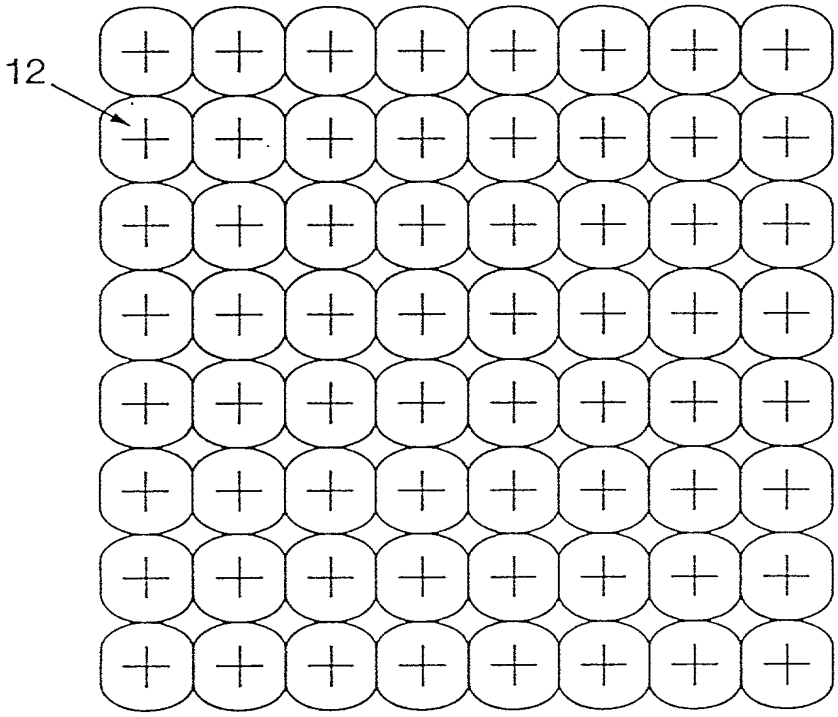


FIG. 4

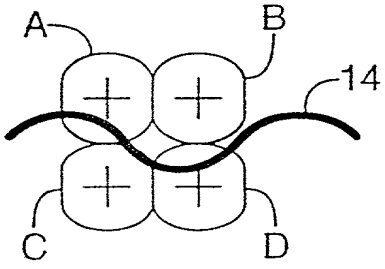


FIG. 5

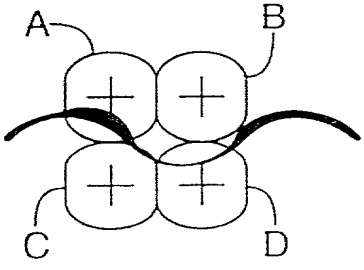


FIG. 6

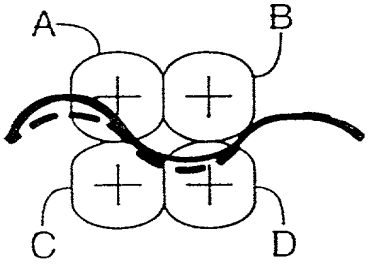


FIG. 8

204	211	212	214	213	207	215	214
204	215	202	205	209	205	213	202
212	207	203	214	203	206	202	215
209	201	211	201	212	204	200	203
208	204	212	206	207	203	205	202
209	214	207	207	211	201	206	213
208	212	206	211	213	208	206	213
209	208	202	202	205	205	205	211

REFERENCE GREY-SCALE CALIBRATION TILE

FIG. 12

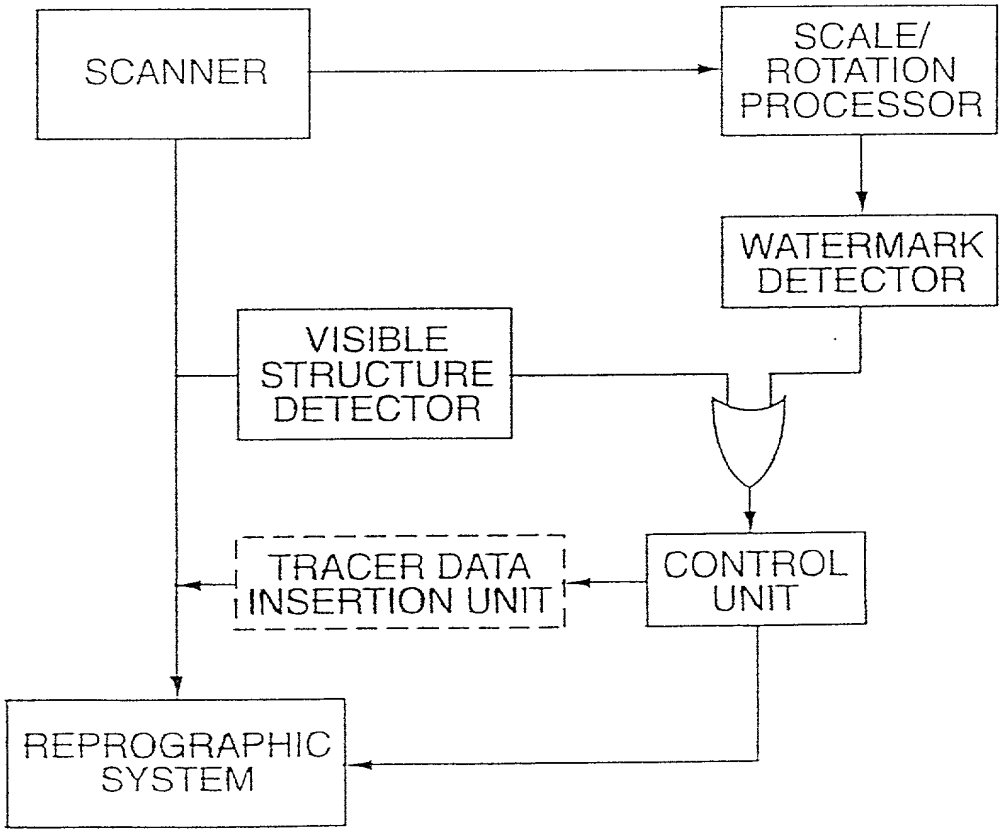


FIG. 7A

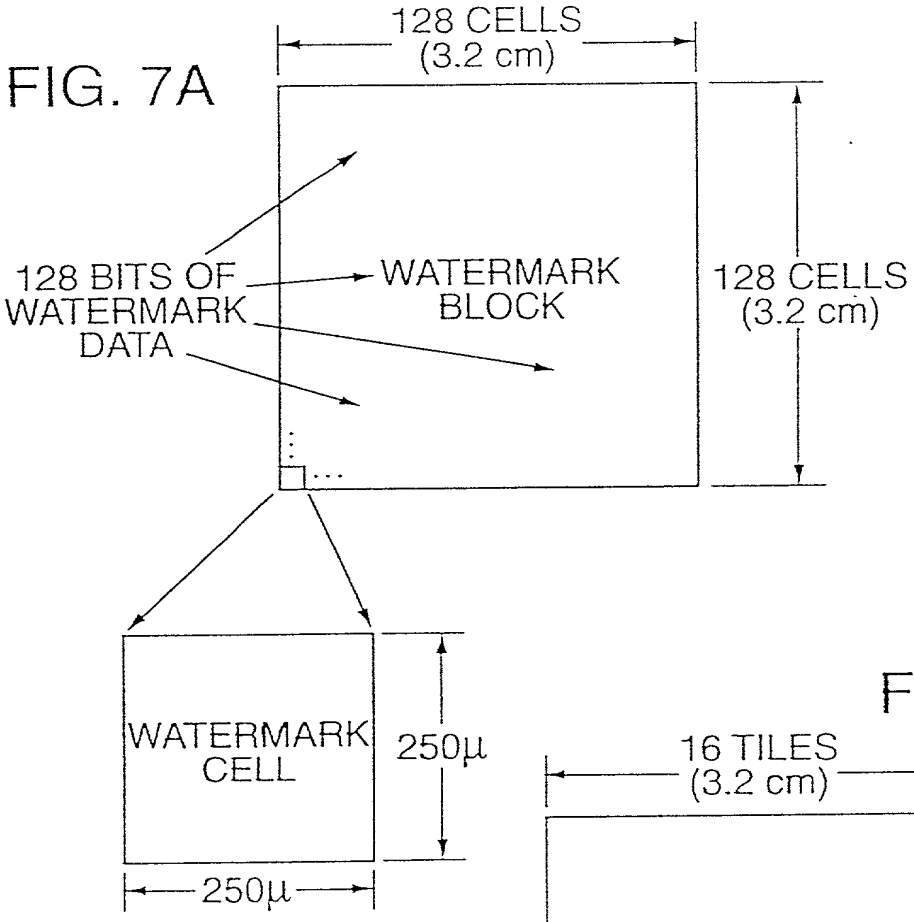
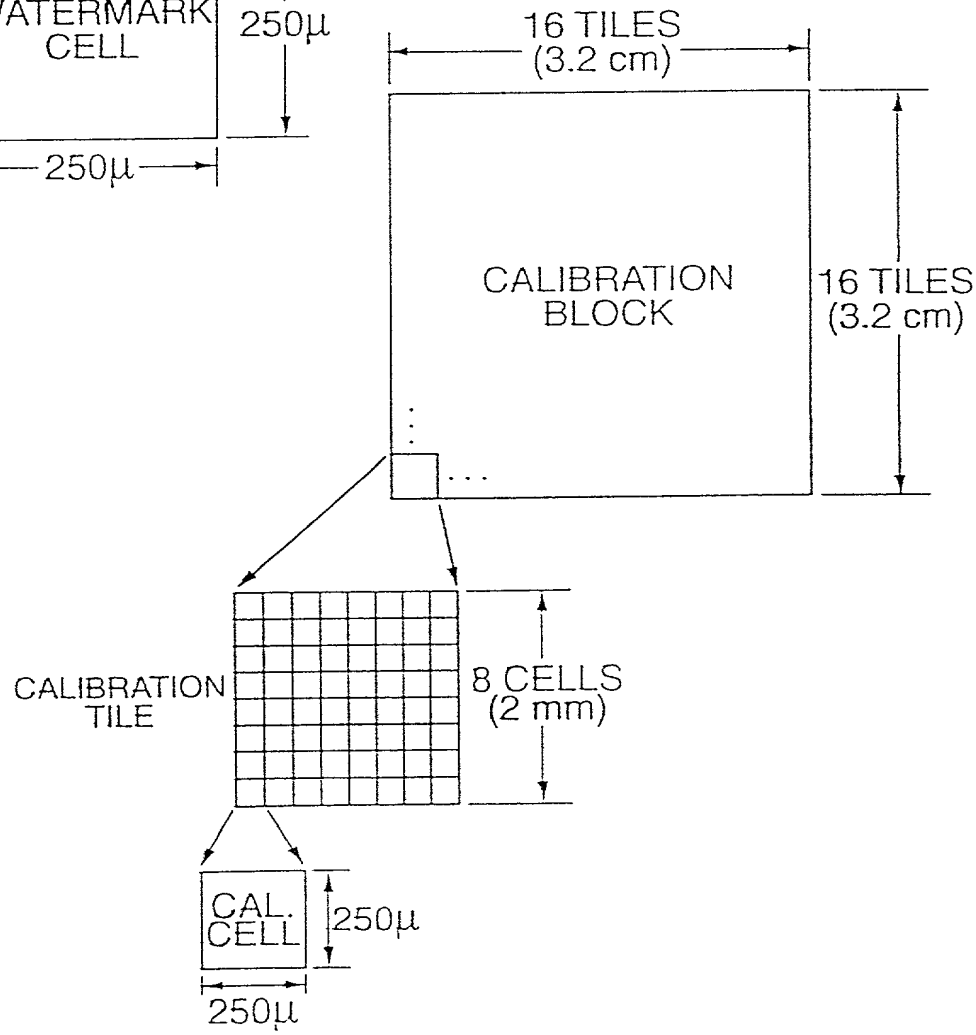


FIG. 7B



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Page 0061

FIG. 9A

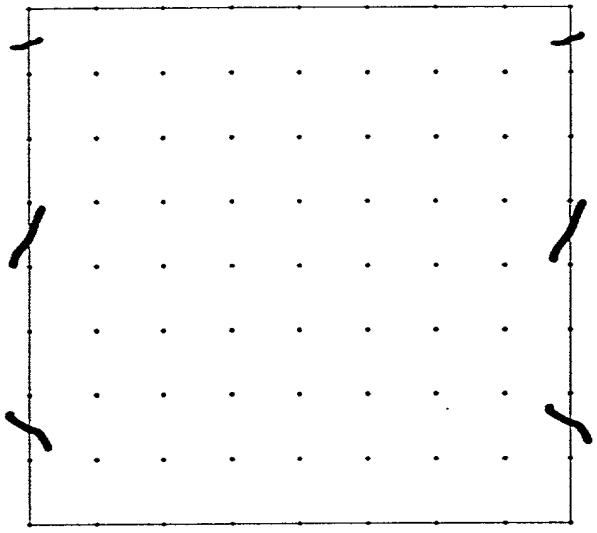


FIG. 9B

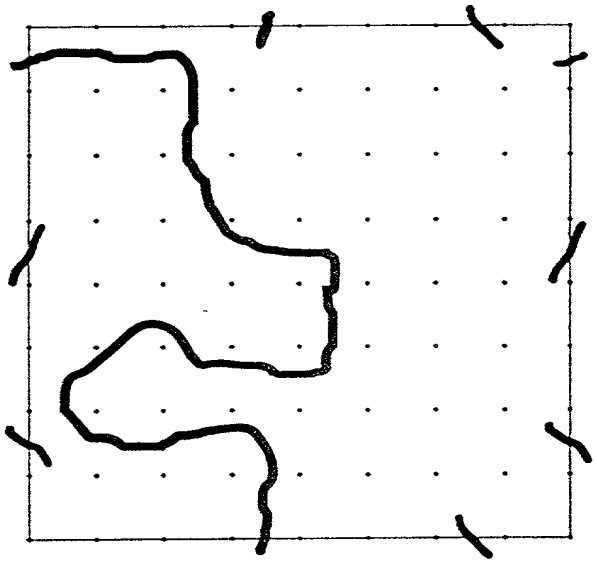
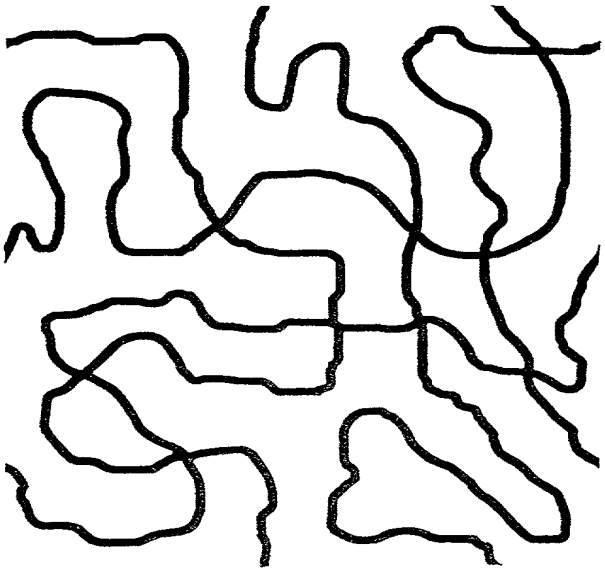


FIG. 9C



Docket No. 50450

FIG. 10

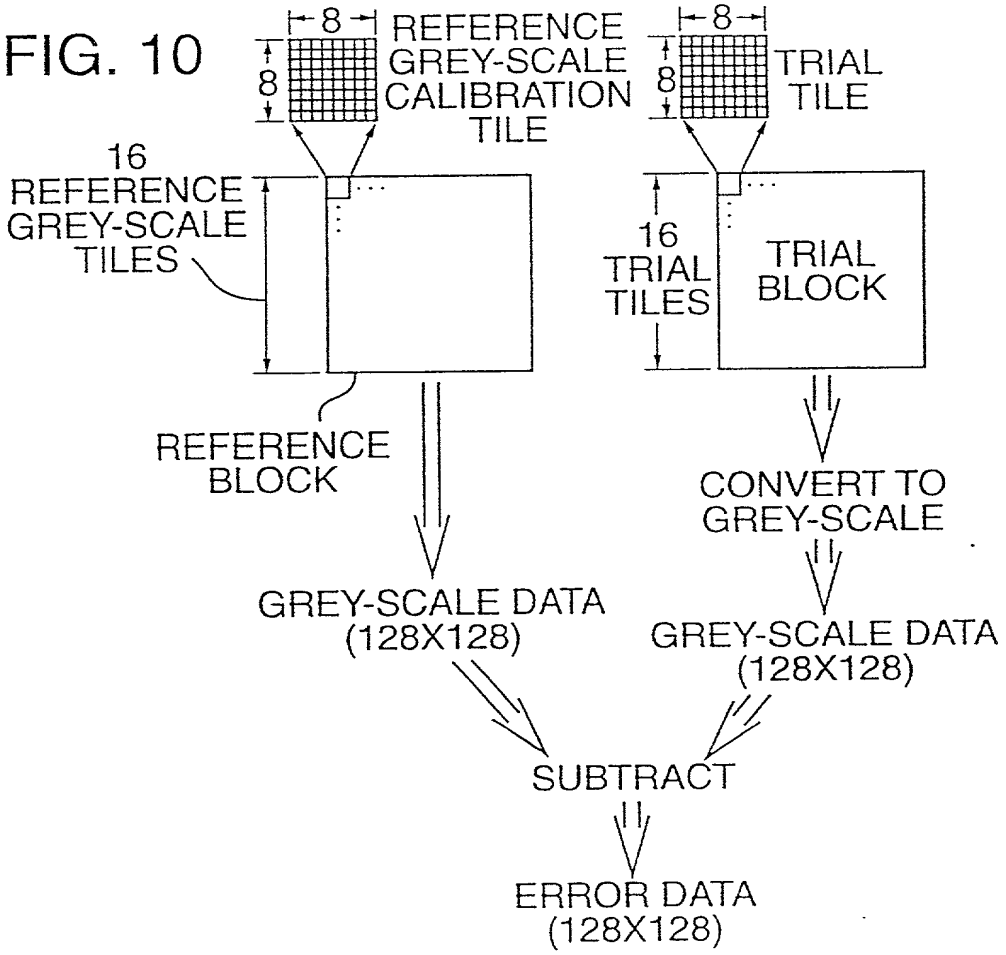
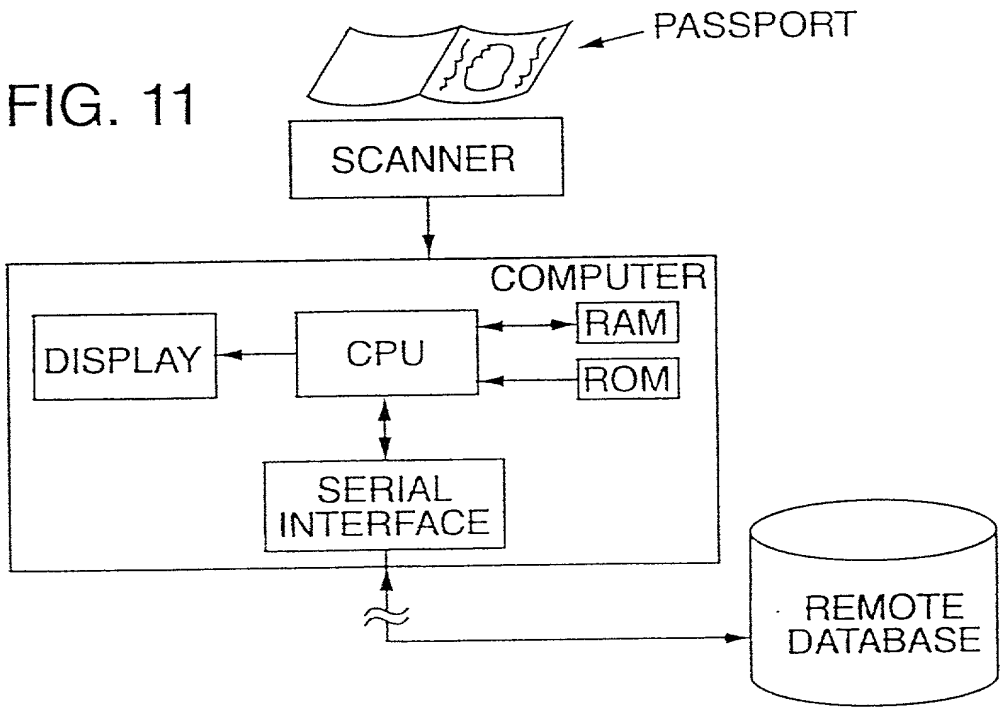

8
8
REFERENCE GREY-SCALE CALIBRATION TILE
8
8
TRIAL TILE
16 REFERENCE GREY-SCALE TILES
16 TRIAL TILES
TRIAL BLOCK
REFERENCE BLOCK
CONVERT TO GREY-SCALE
GREY-SCALE DATA (128X128)
GREY-SCALE DATA (128X128)
SUBTRACT
ERROR DATA (128X128)

FIG. 11


PASSPORT
SCANNER
COMPUTER
DISPLAY
CPU
RAM
ROM
SERIAL INTERFACE
REMOTE DATABASE

Postpaid-9654800

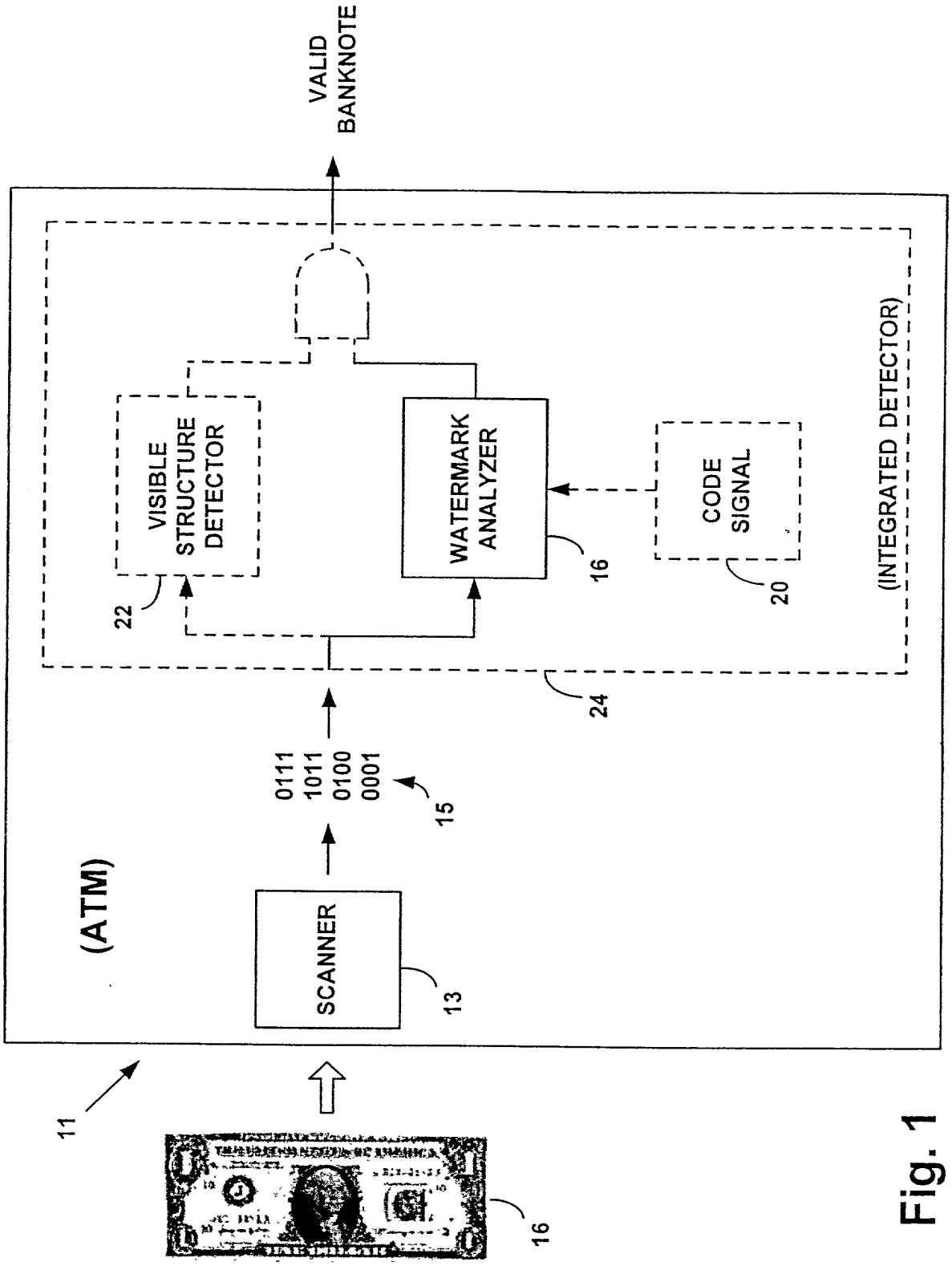


Fig. 1

POSTED 99SEP1860

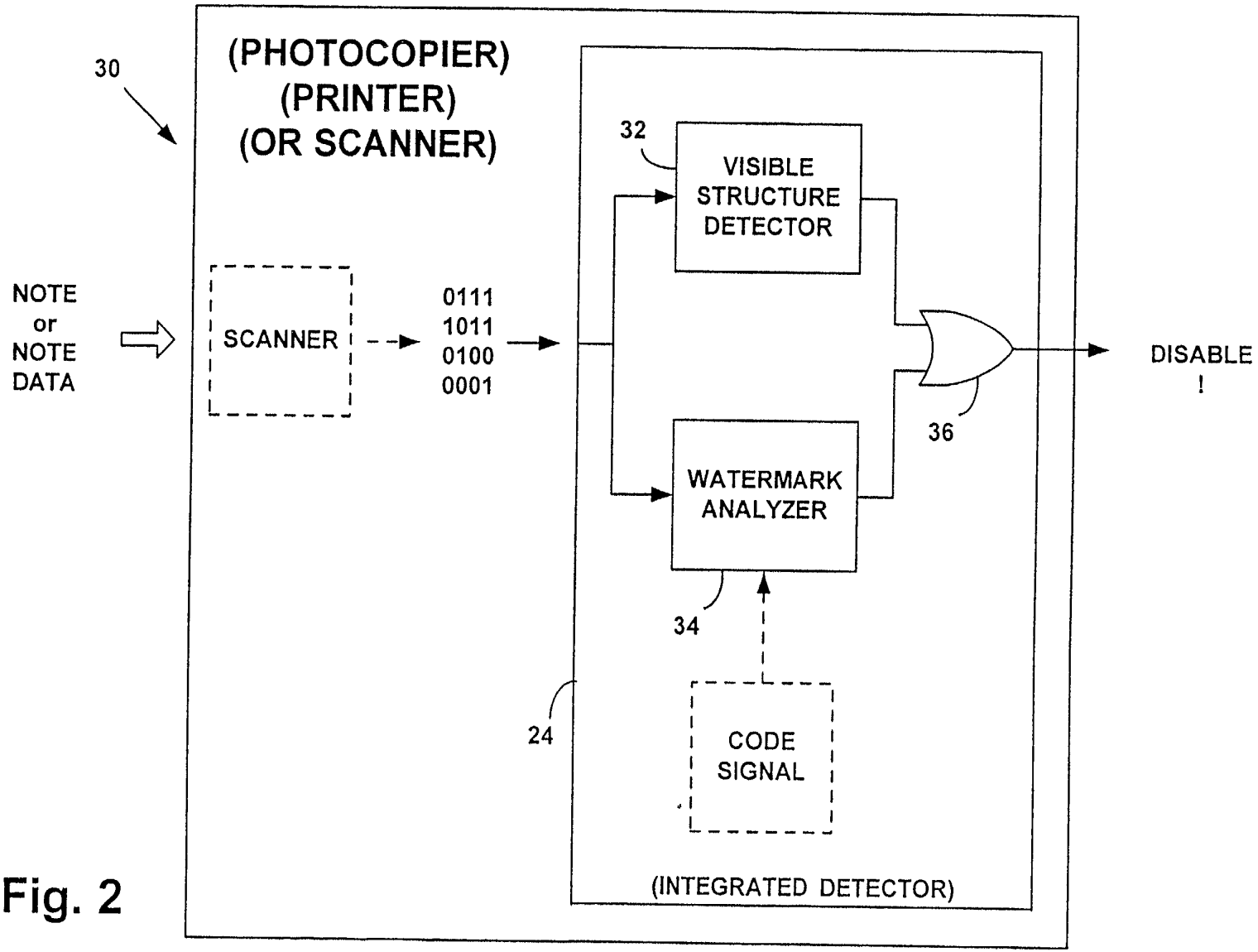


Fig. 2

POSTED 09SEP2860

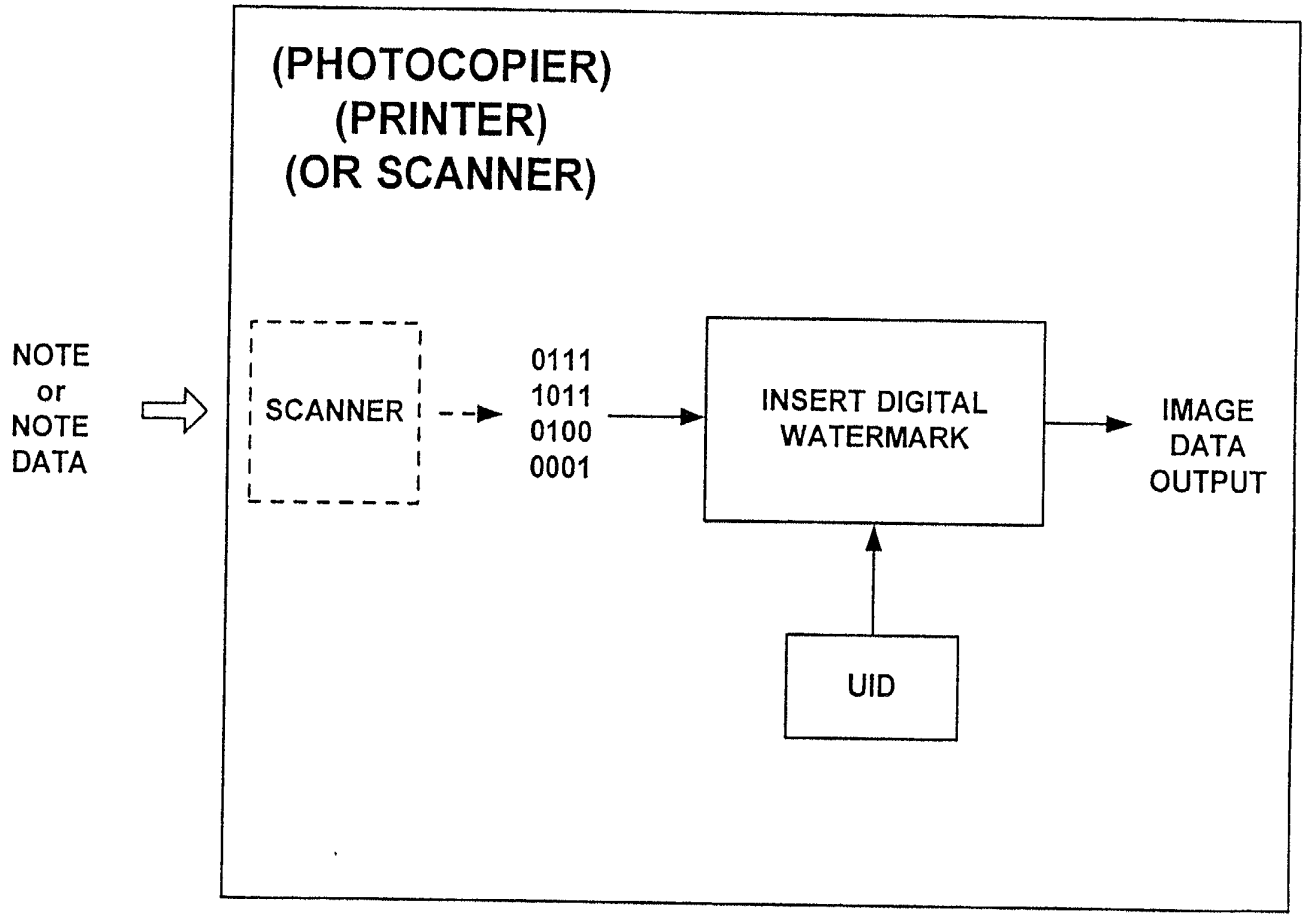


Fig. 3

FIG. 1

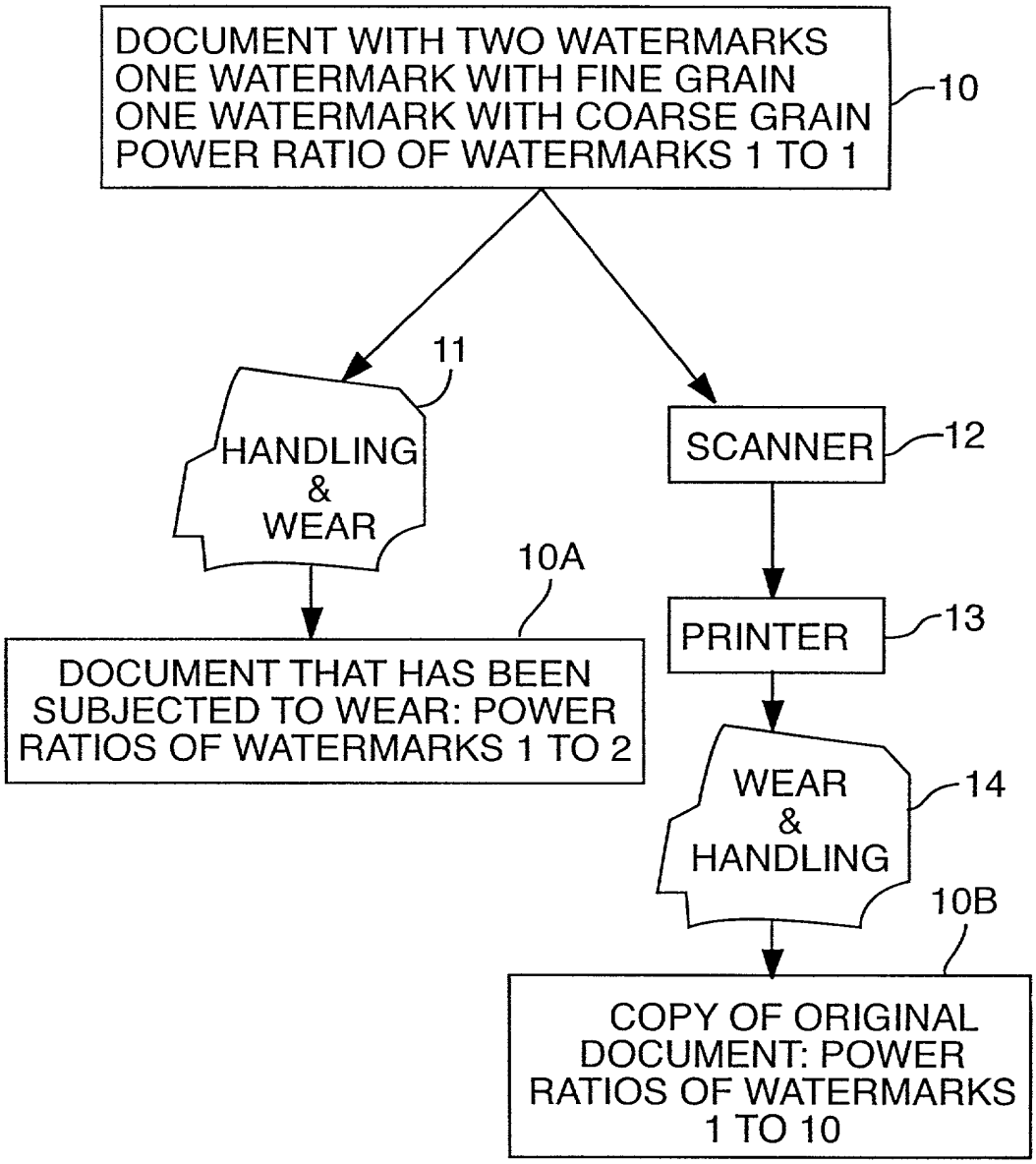


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FIG. 2A

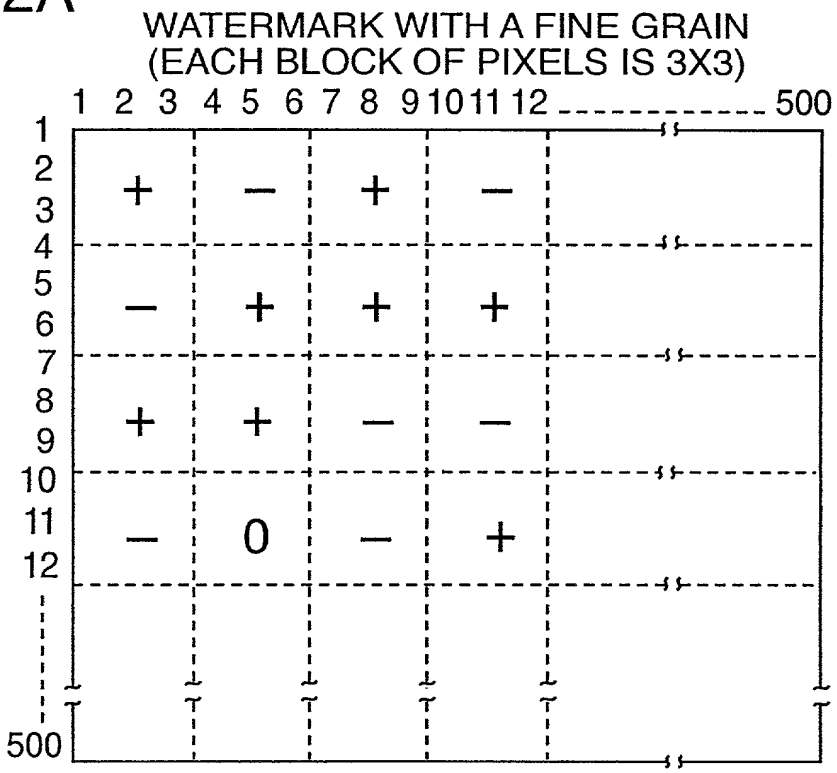

WATERMARK WITH A FINE GRAIN
(EACH BLOCK OF PIXELS IS 3X3)
1 2 3 4 5 6 7 8 9 10 11 12 ---------- 500
1
2
3
4
5
6
7
8
9
10
11
12
500
+ − + −
− + + +
+ + − −
− 0 − +

FIG. 2B

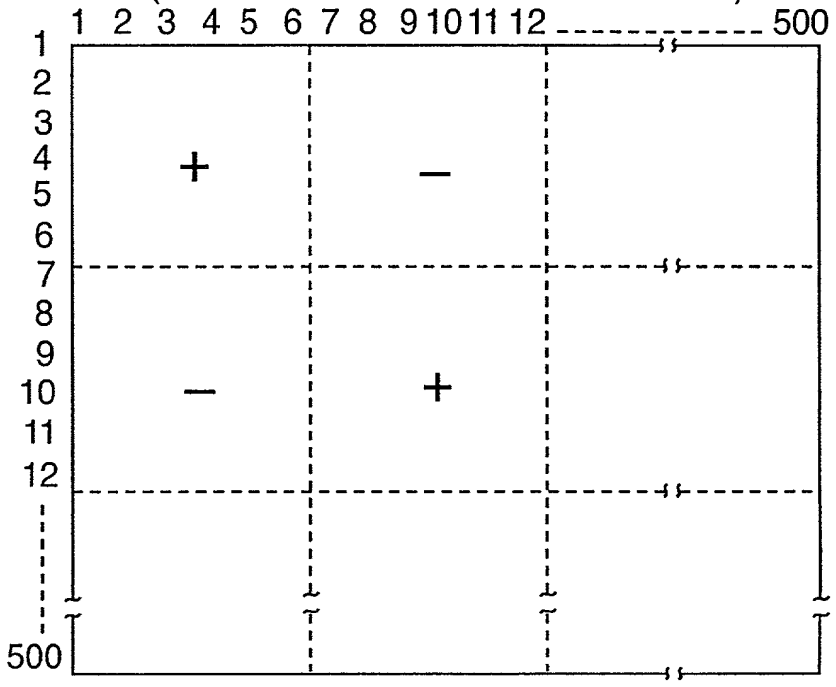

WATERMARK WITH A COARSE GRAIN
(EACH BLOCK OF PIXELS IS 6X6)
1 2 3 4 5 6 7 8 9 10 11 12 ---------- 500
1
2
3
4
5
6
7
8
9
10
11
12
500
+ −
− +

FIG. 3A GEOMETRICALLY LINEAR ASSIGNMENT 0F PIXELS TO EACH BIT

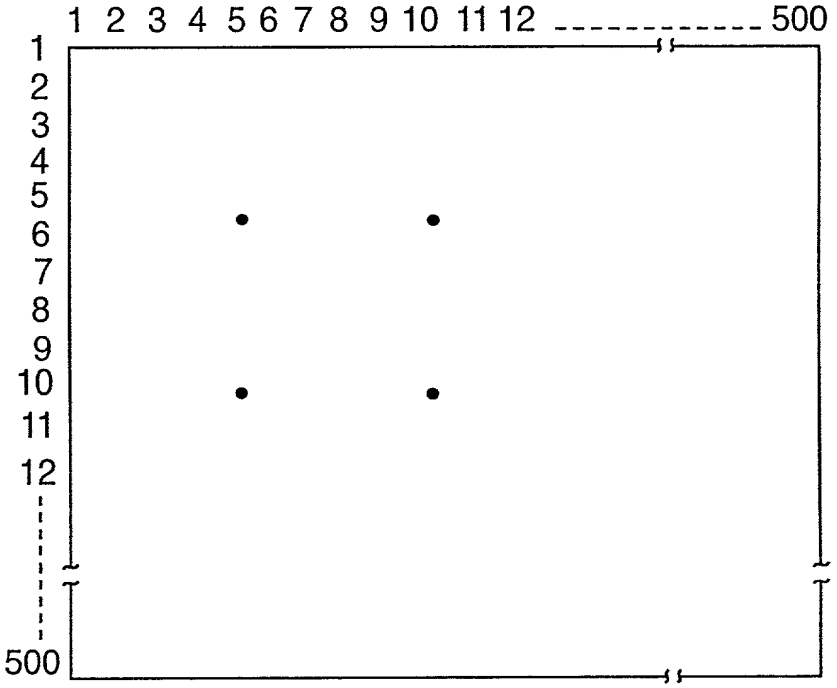
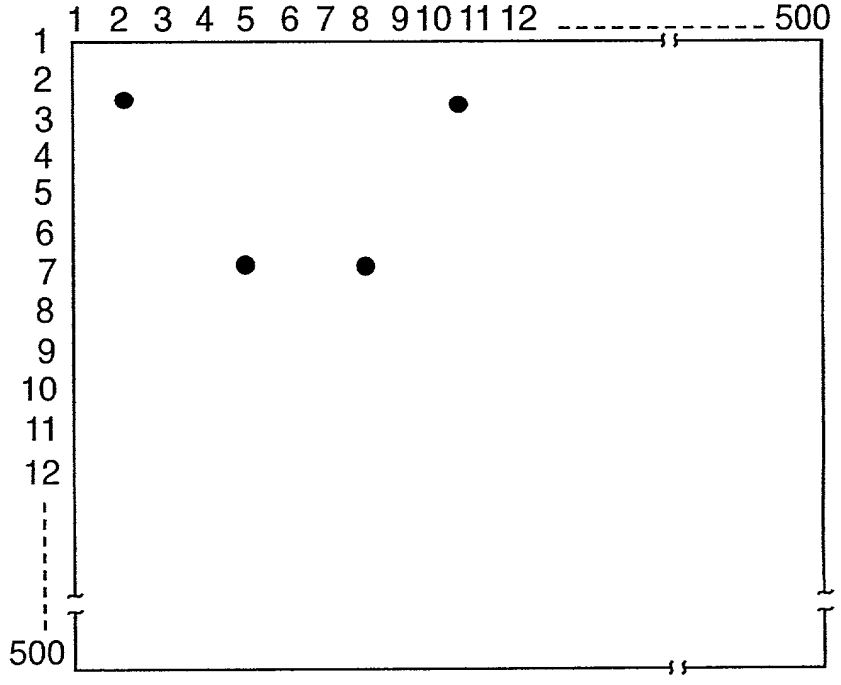


FIG. 3B GEOMETRICALLY RANDOM ASSIGNMENT 0F PIXELS TO EACH BIT



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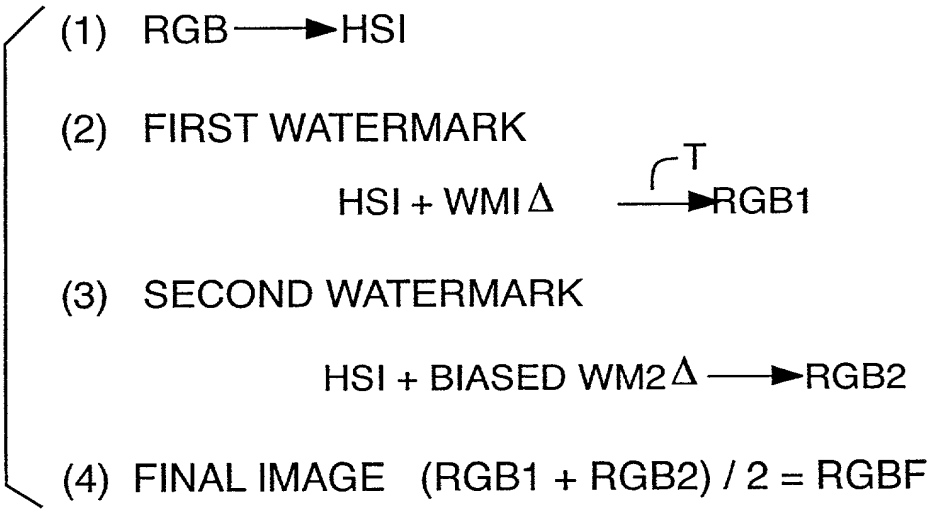


FIG. 4

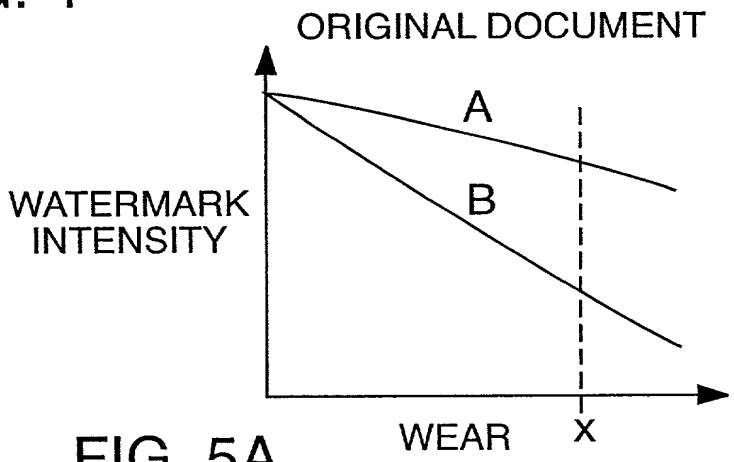


FIG. 5A

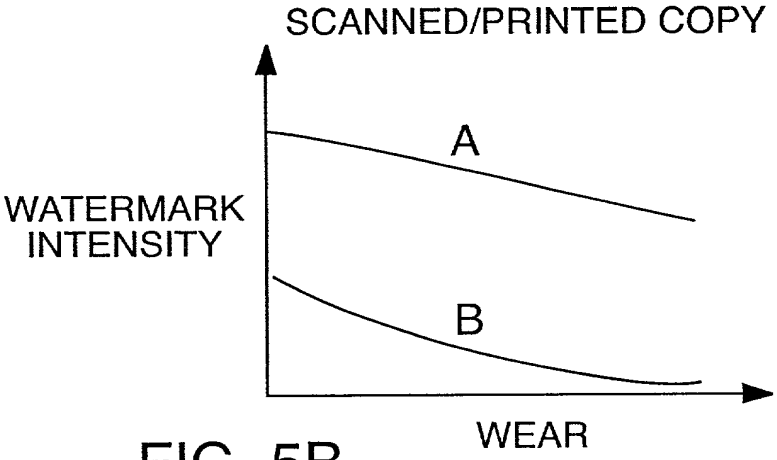
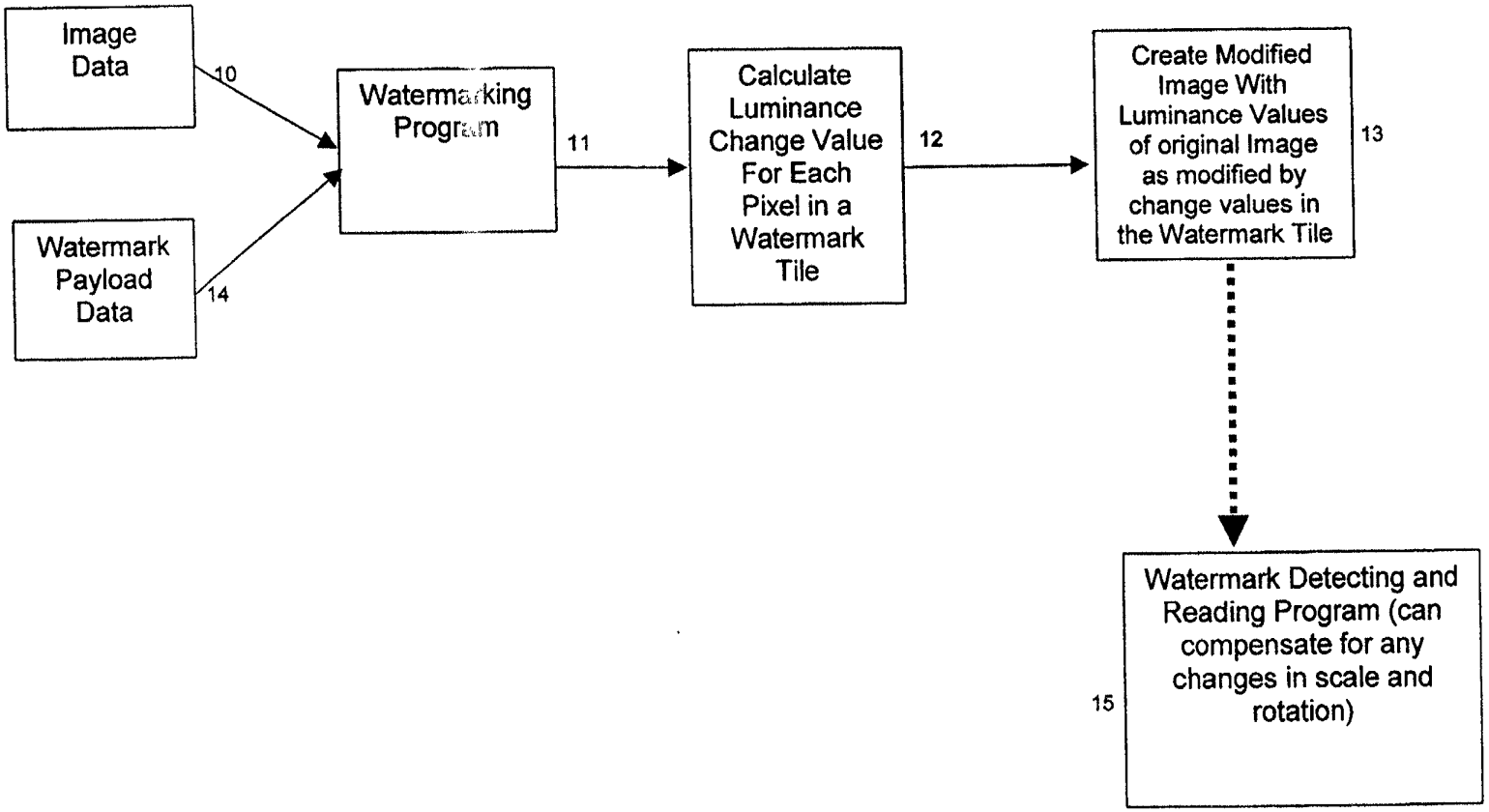


FIG. 5B

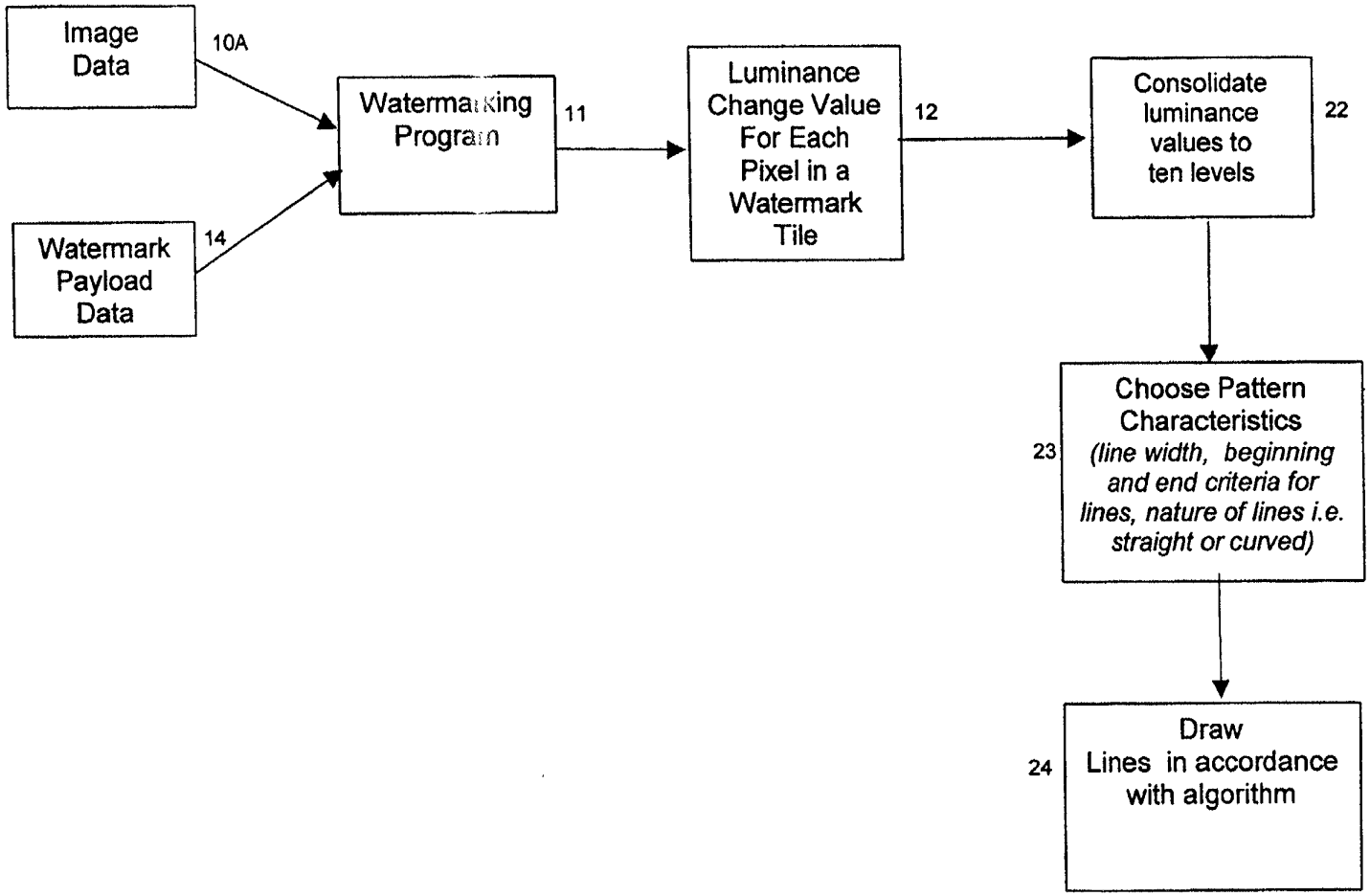
TESTED 99ET860

Figure 1 (Prior Art)



TOSTED 9SETT860

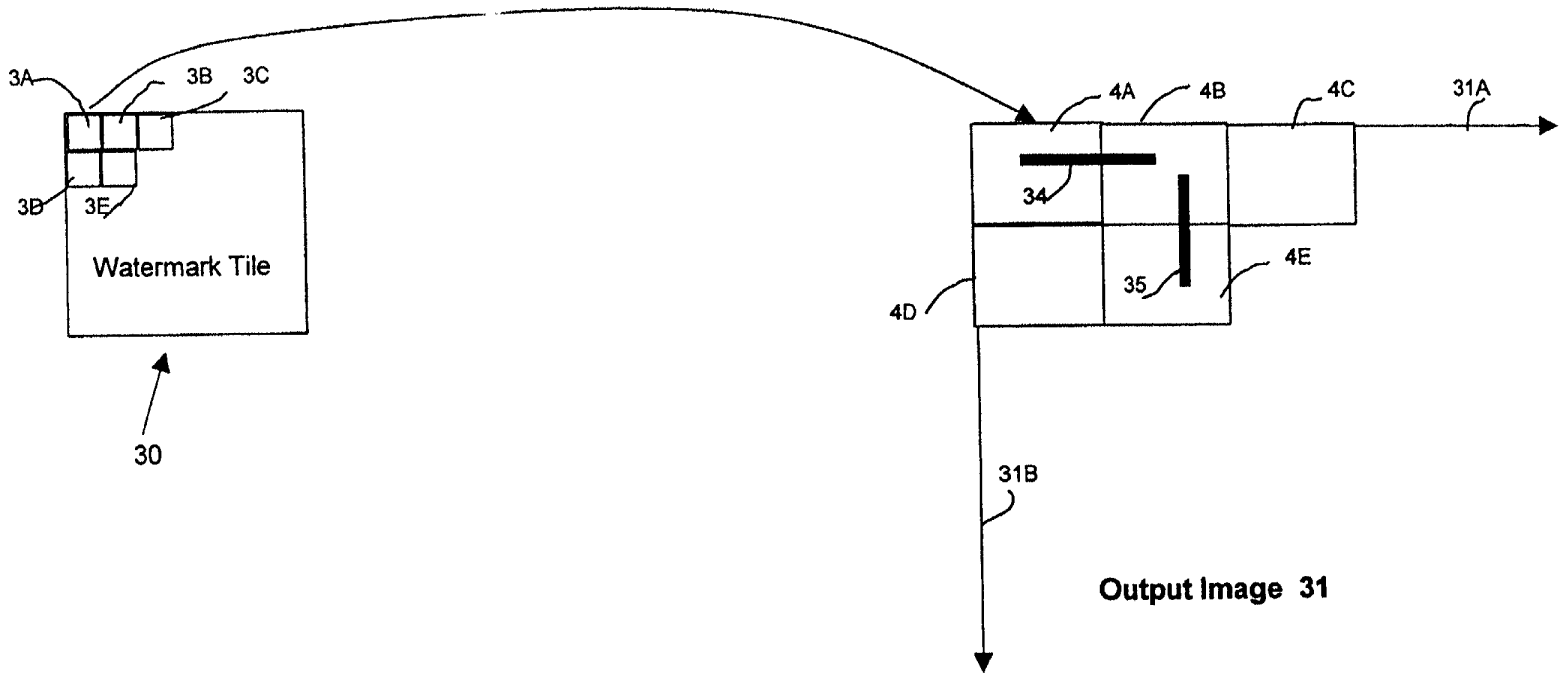
Figure 2



APPENDIX D DRAWINGS

POSTED 99ET860

Figure 3



(note to draftsman -- edges of all squares line up -- sides of all squares have same weight lines)

Figure 4

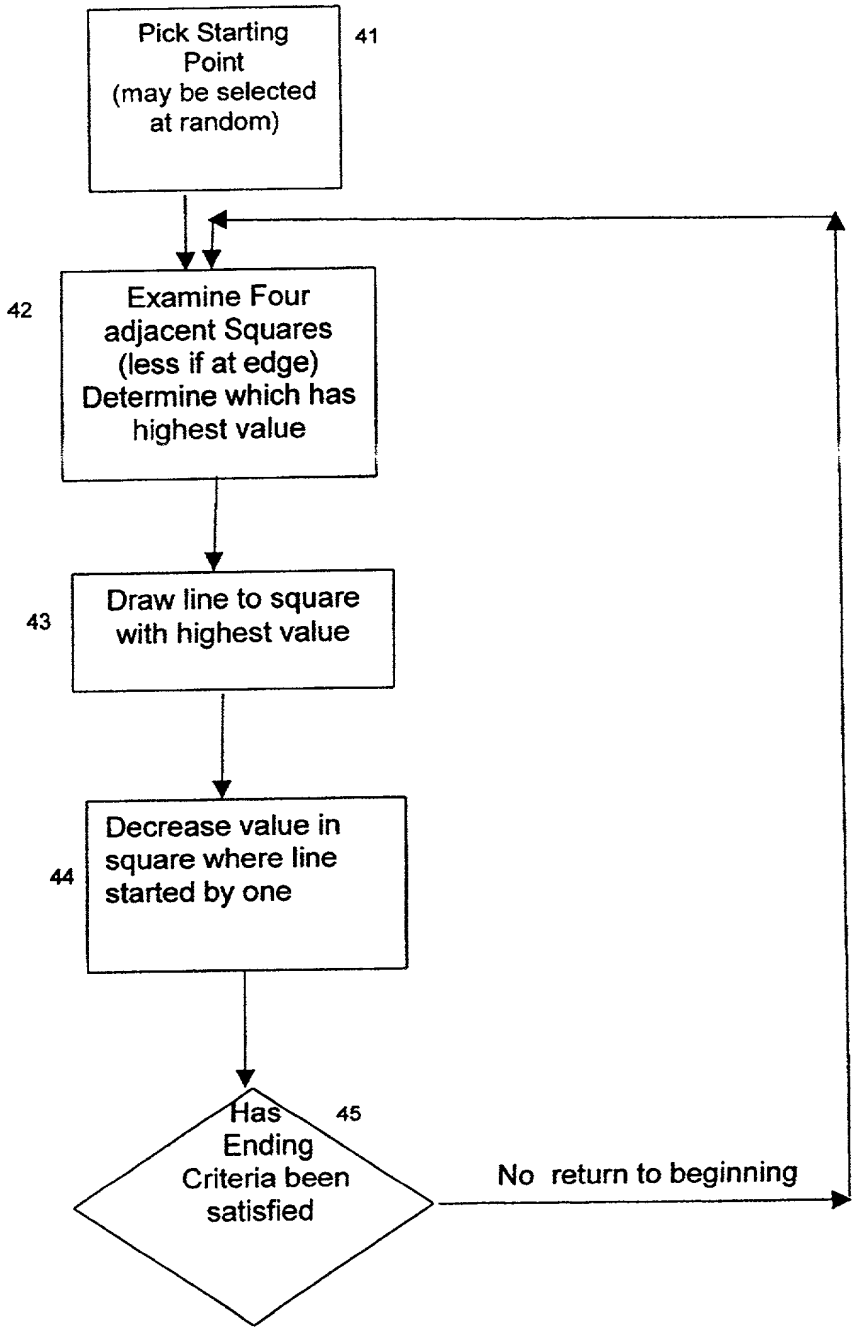
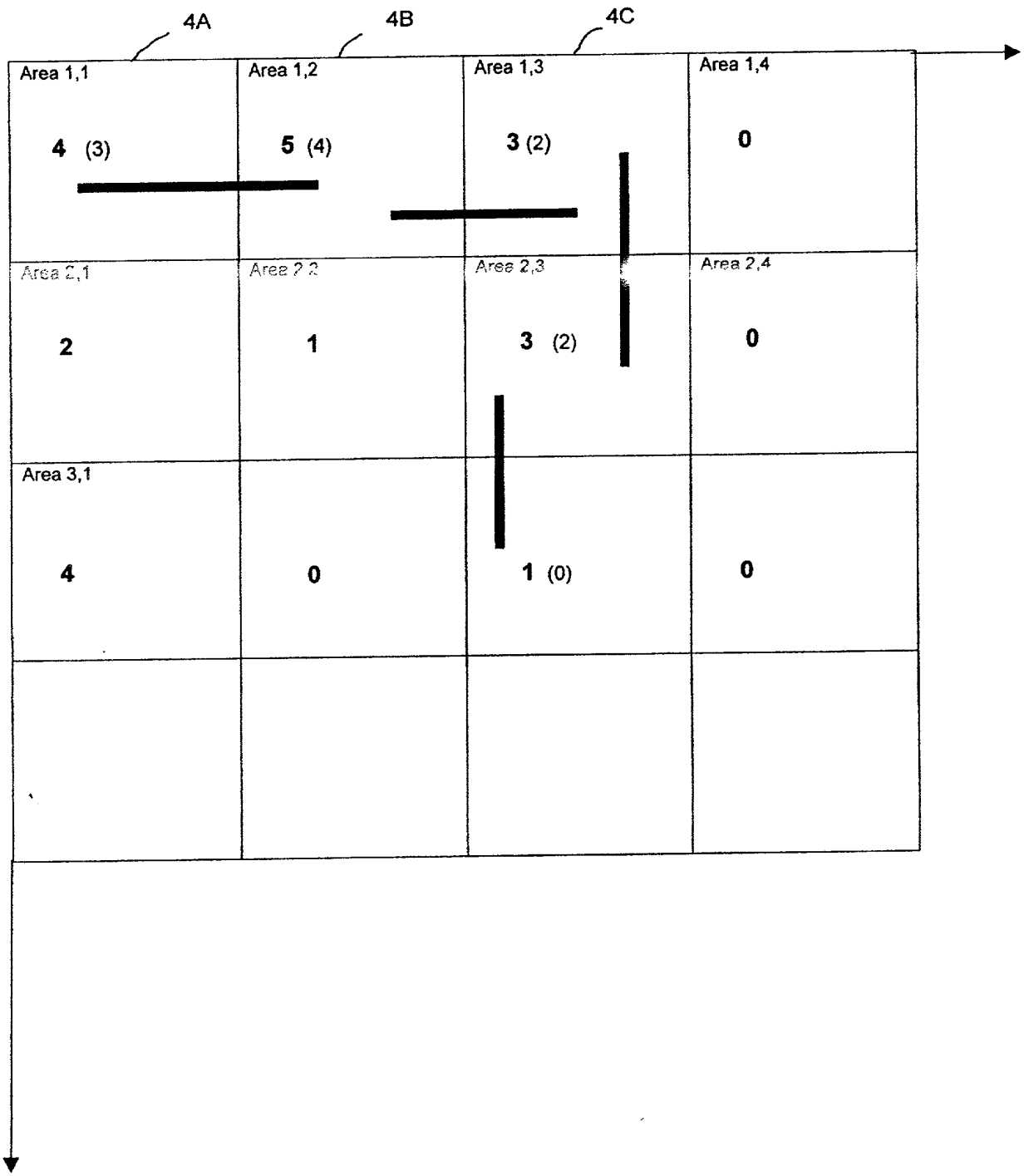
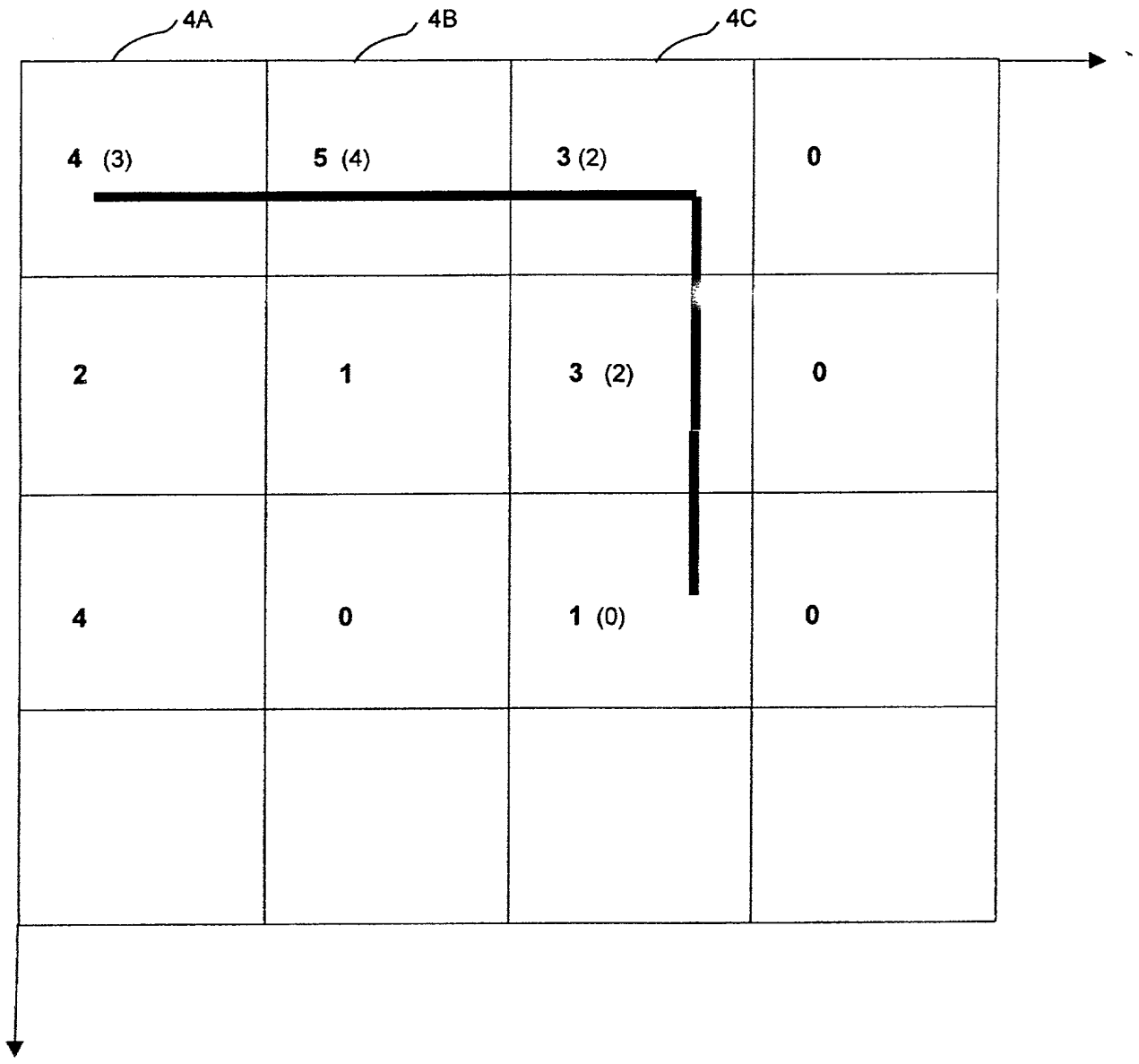

Pick Starting Point (may be selected at random)
41
Examine Four adjacent Squares (less if at edge) Determine which has highest value
42
Draw line to square with highest value
43
Decrease value in square where line started by one
44
Has Ending Criteria been satisfied
45
No return to beginning

Figure 5



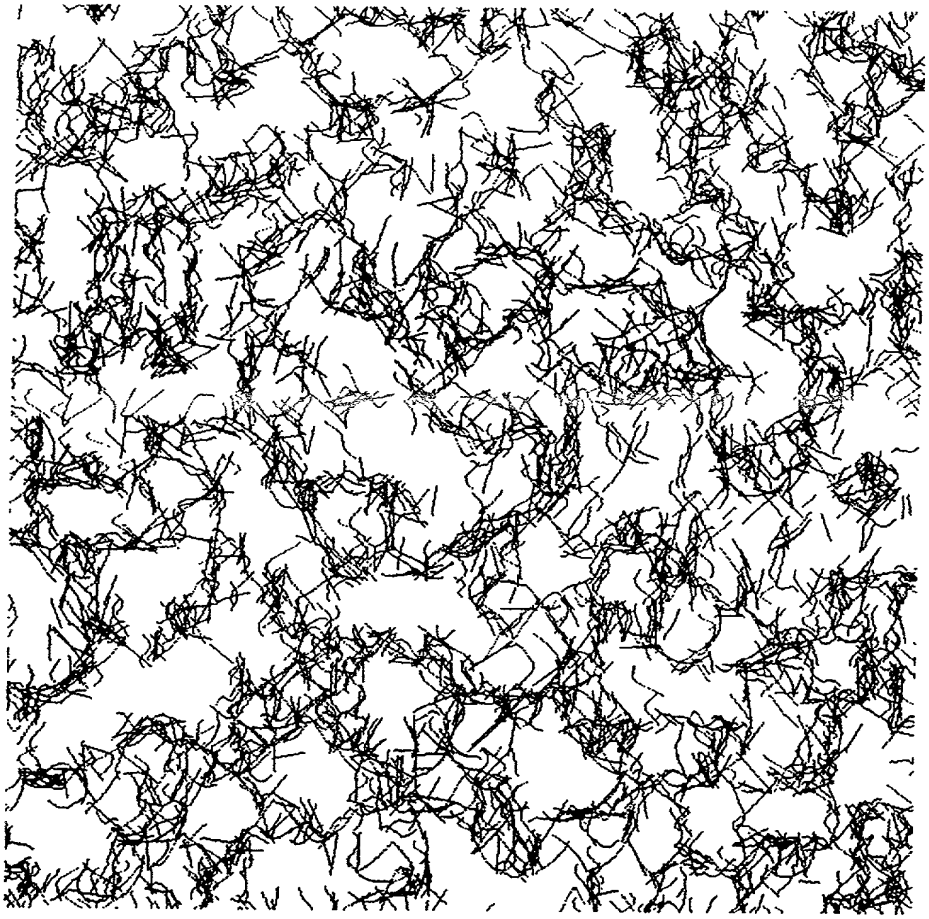
Document Number: 5

Figure 6



Document: 2005-0354

Figure 7



D0041005 - D0041013

Replacement Sheet

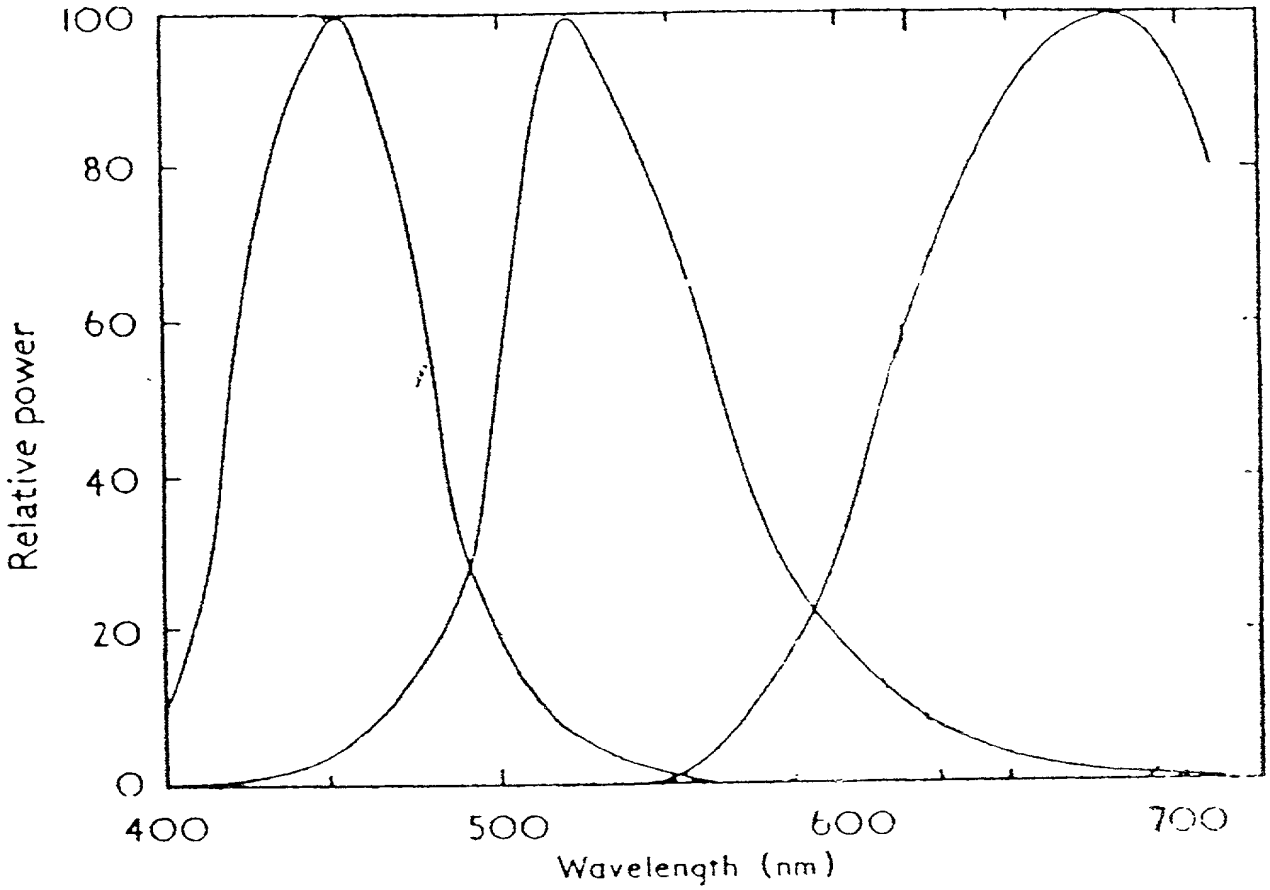


FIG. 1

APPENDIX E DRAWING

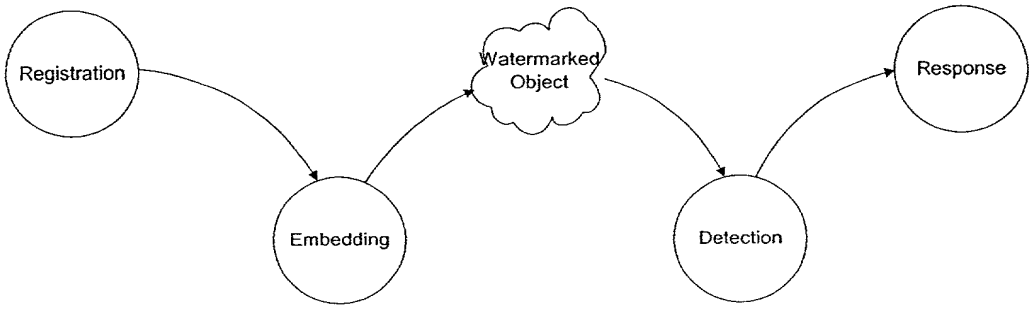

Registration
Embedding
Watermarked Object
Detection
Response

FIG. 1

POSTED: 9/8/2010

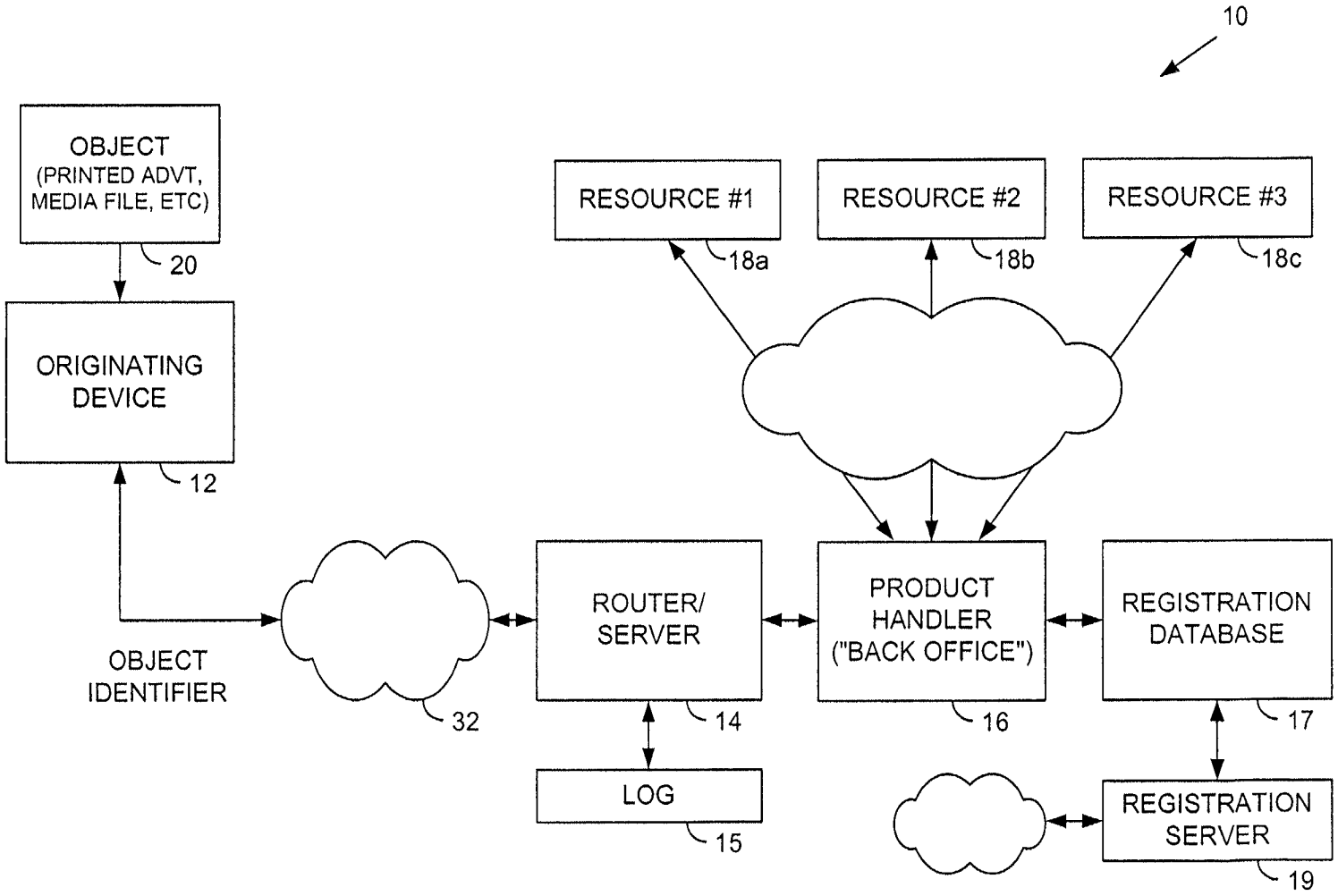


FIG. 2

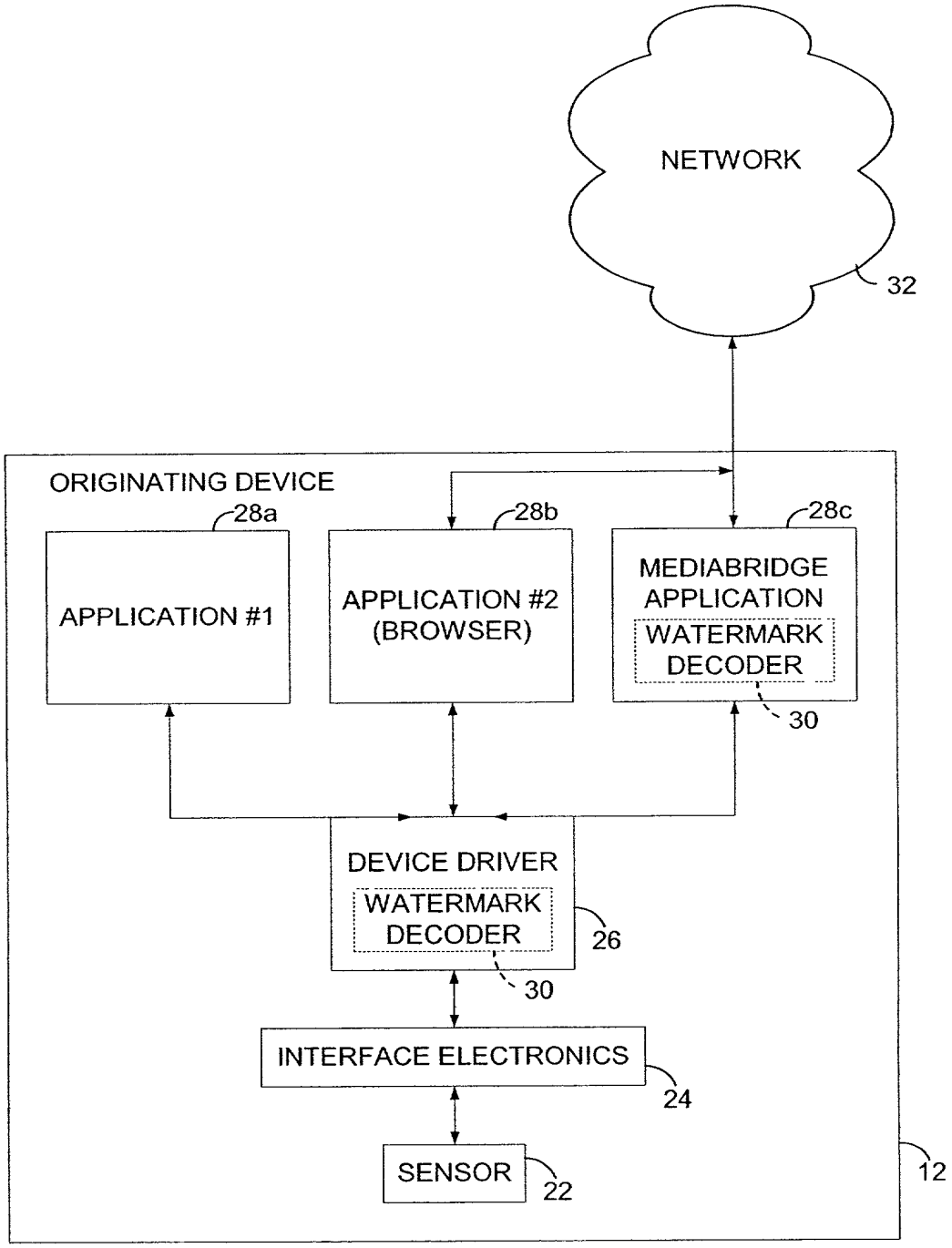

NETWORK
32
ORIGINATING DEVICE
28a
28b
28c
APPLICATION #1
APPLICATION #2
(BROWSER)
MEDIABRIDGE
APPLICATION
WATERMARK
DECODER
30
DEVICE DRIVER
WATERMARK
DECODER
26
30
INTERFACE ELECTRONICS
24
SENSOR
22
12

FIG. 3

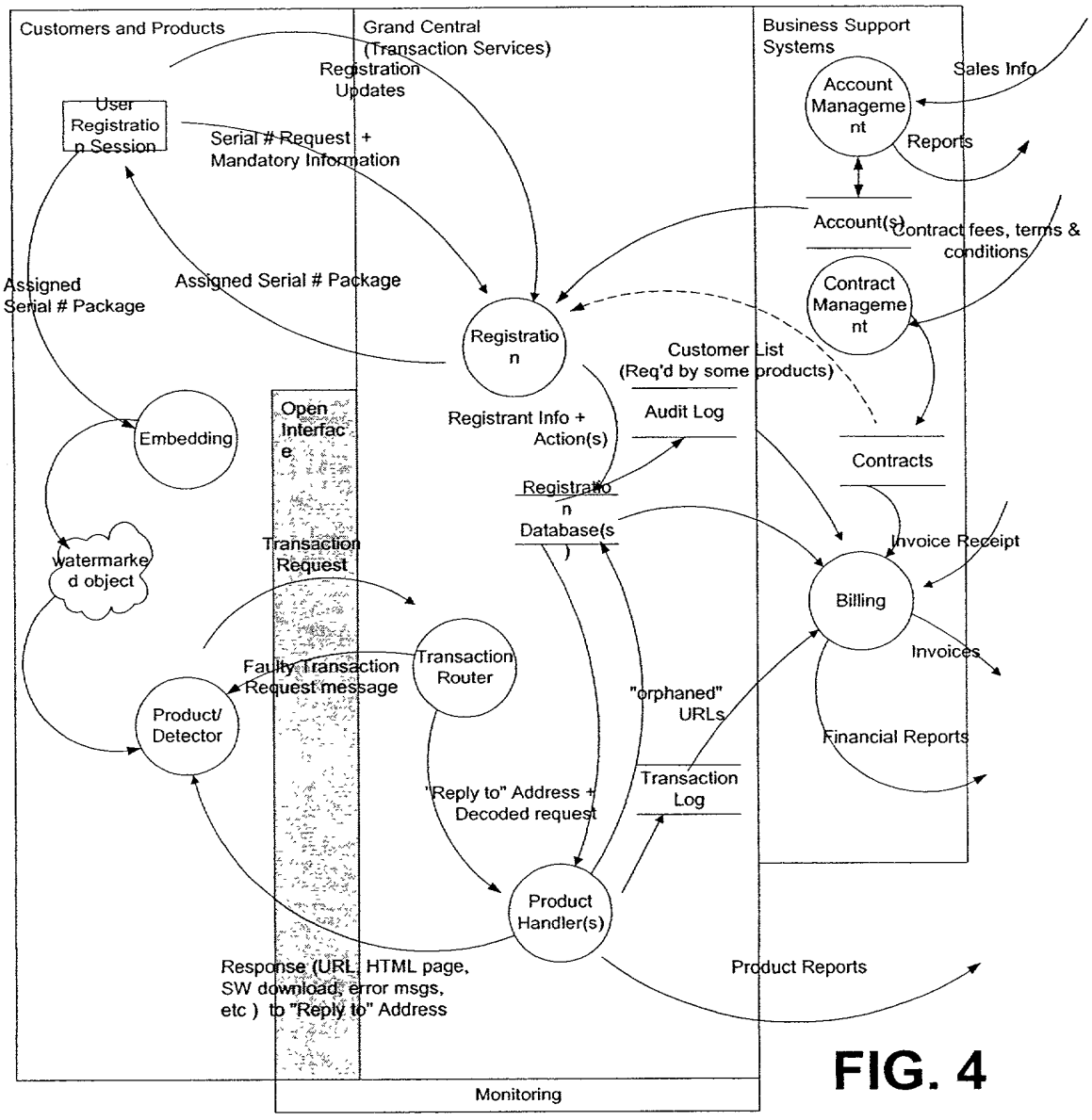


FIG. 4

Docket No. 50277-2000

Docket No. 50325-0001

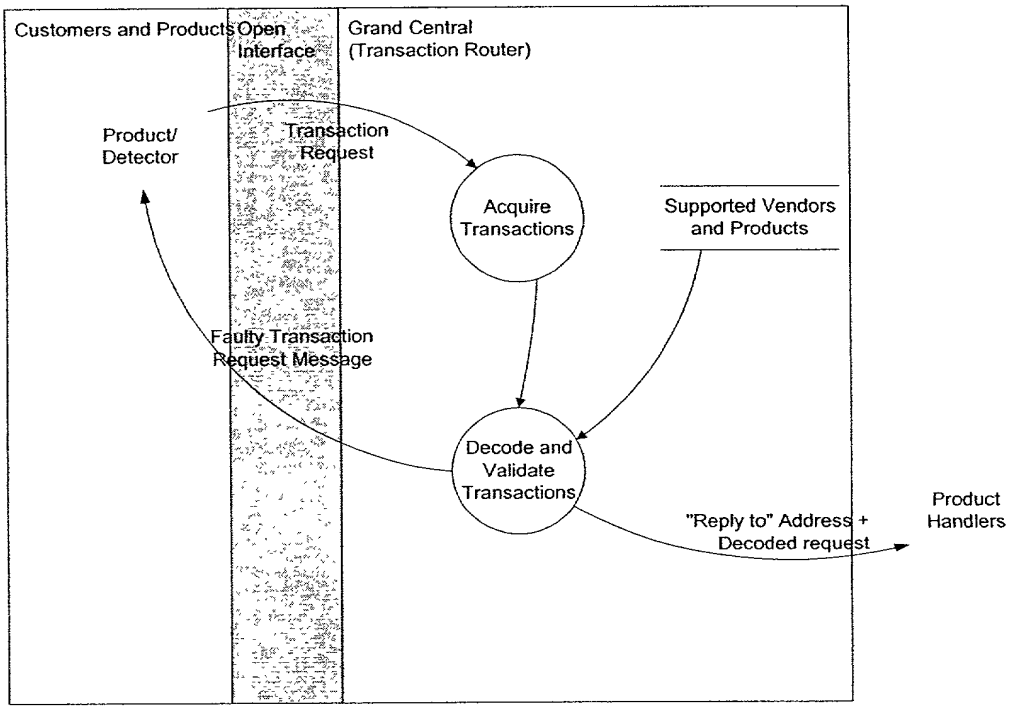


FIG. 5

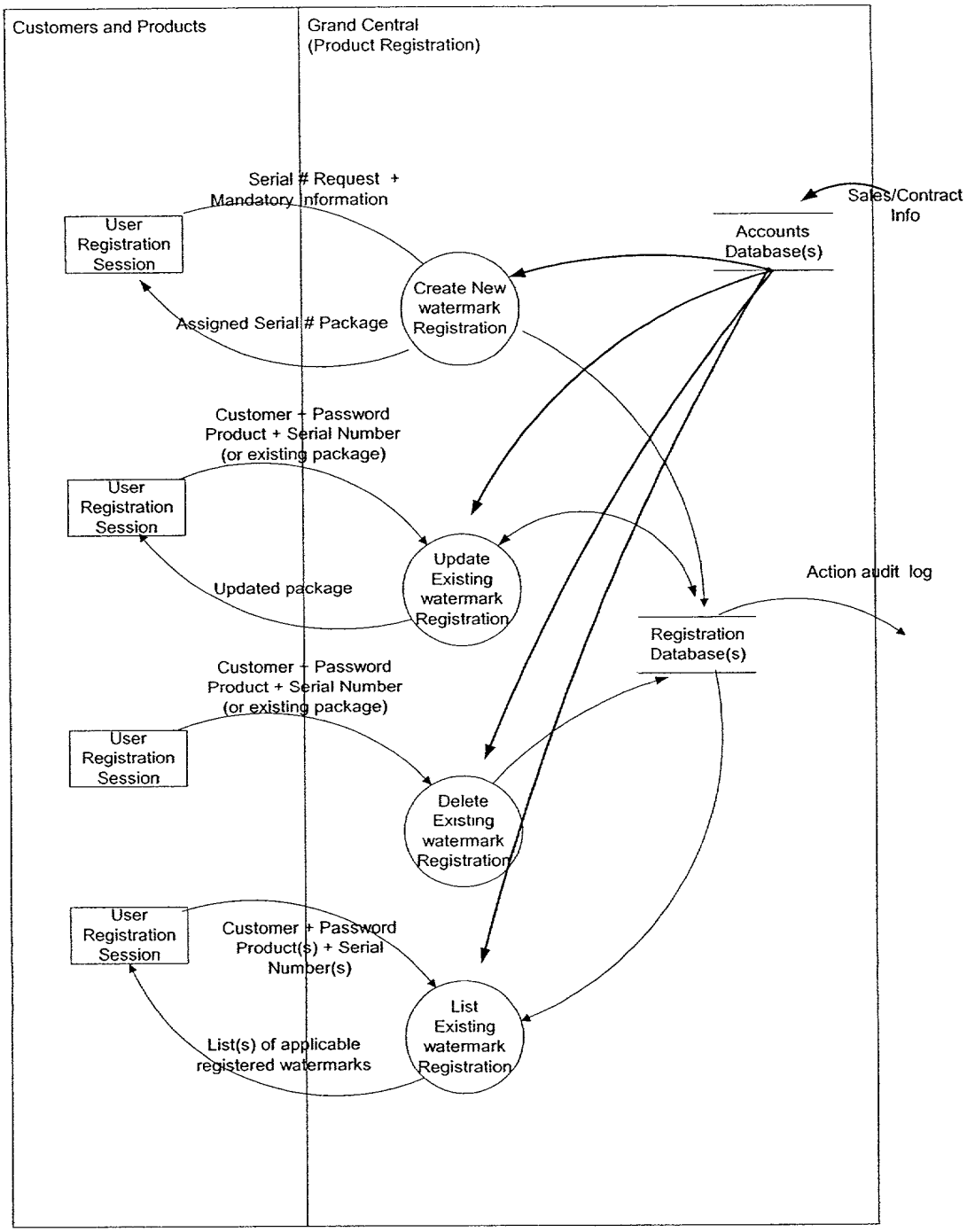


FIG. 6

Default - Default

DRAFT - 03/24/2005

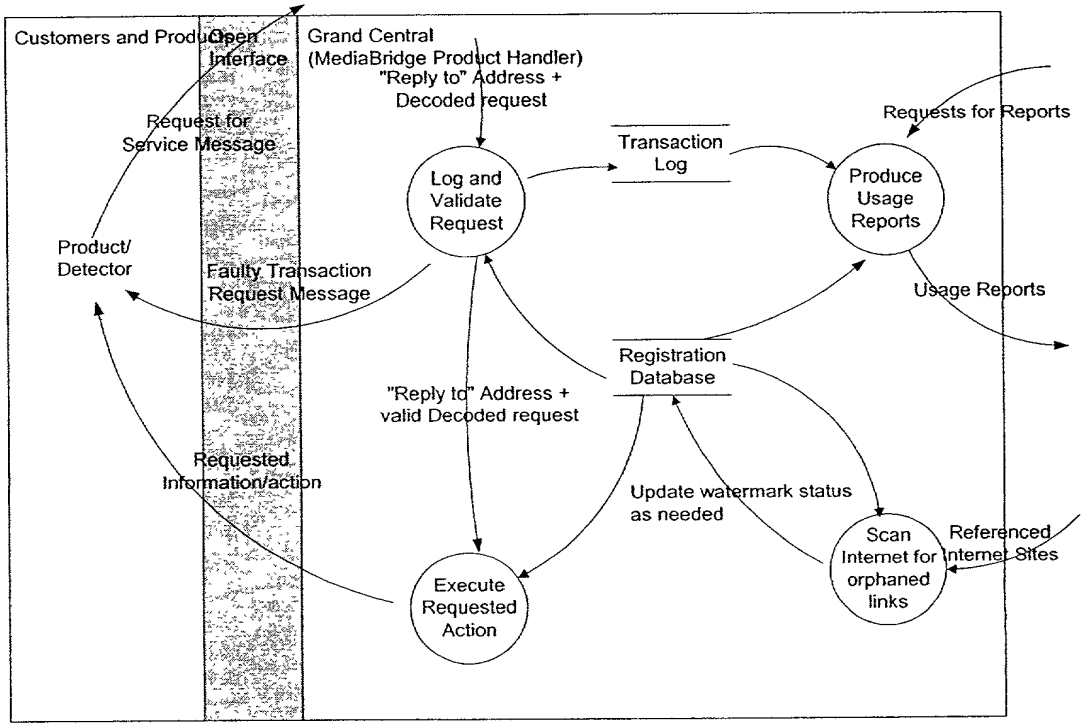


FIG. 7

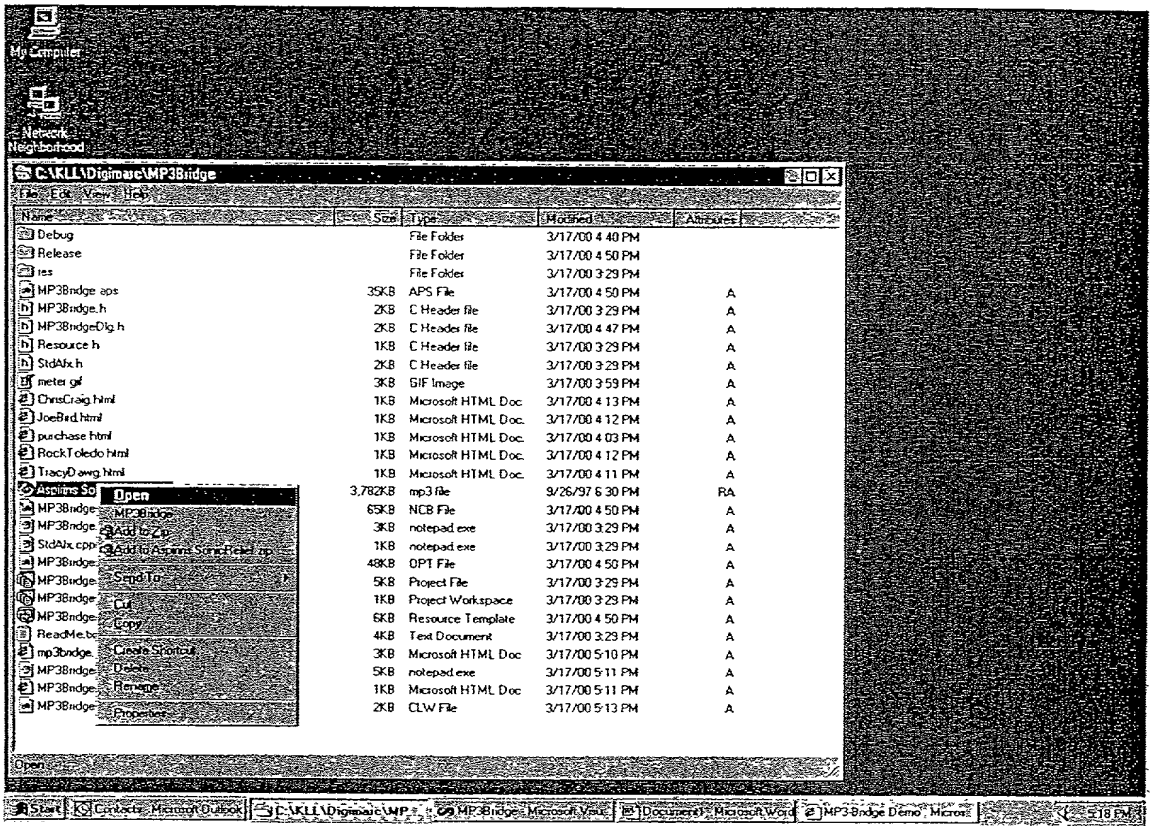


FIG. 8

Docket No. 3000.1.1.1

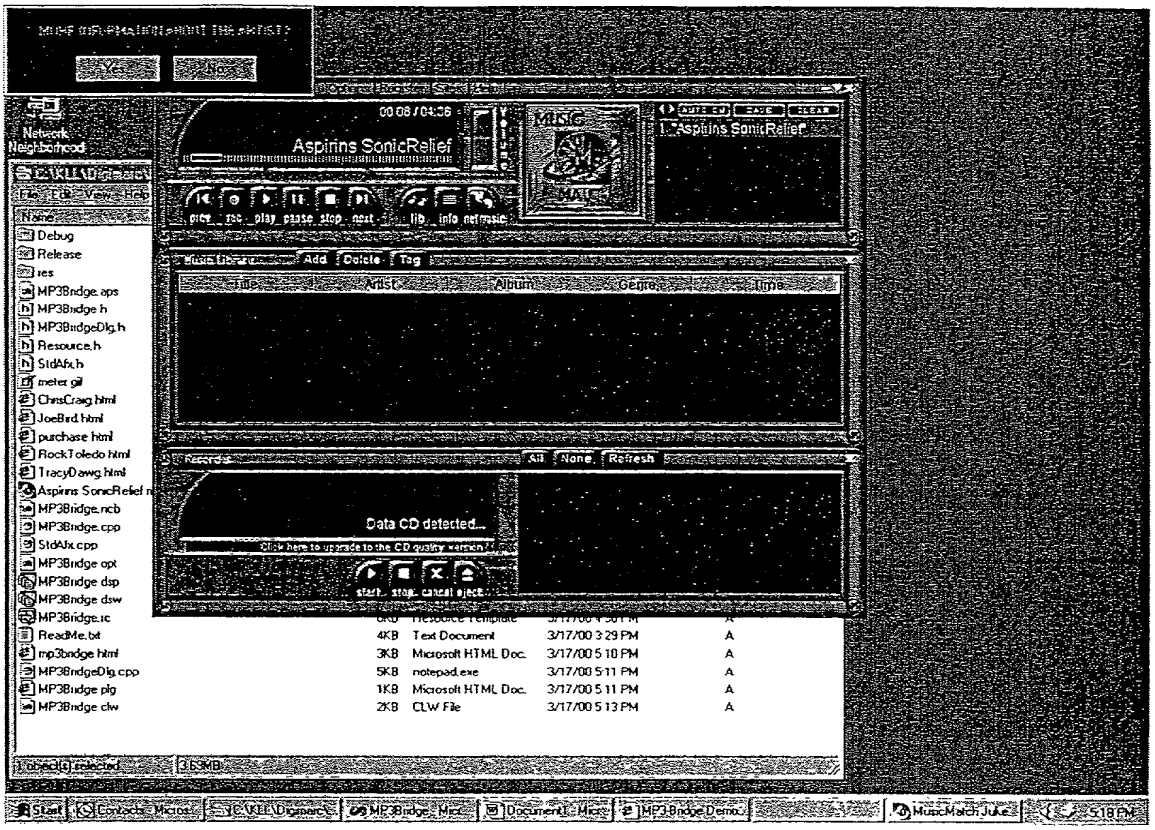


FIG. 9

APPENDIX G DRAWINGS

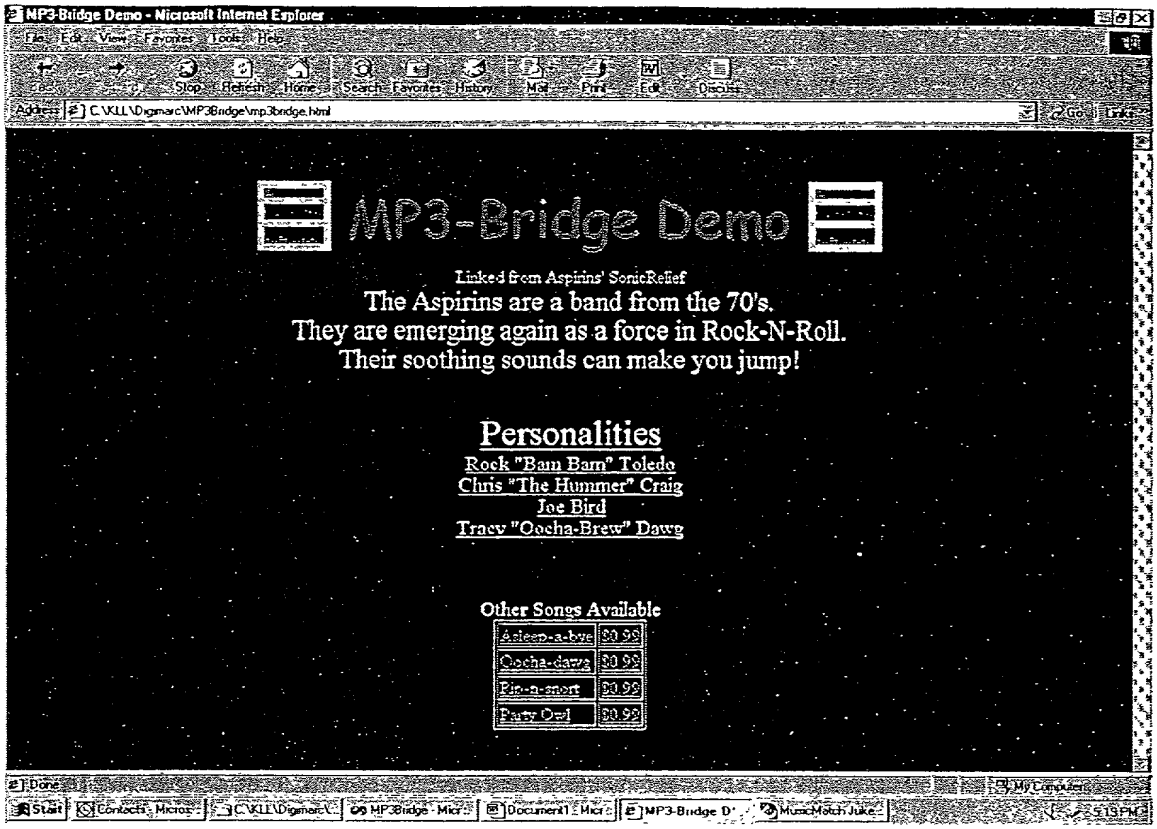


FIG 10

Express Mail Label No. EV 339 920 905 US

Doc 2005-0054

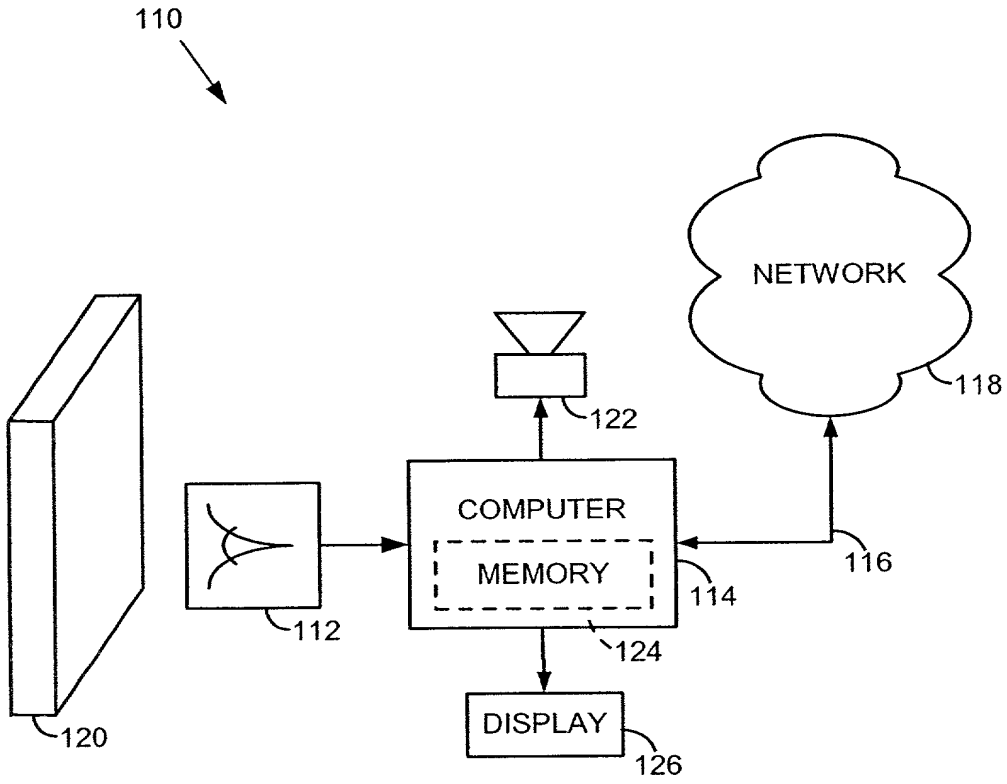
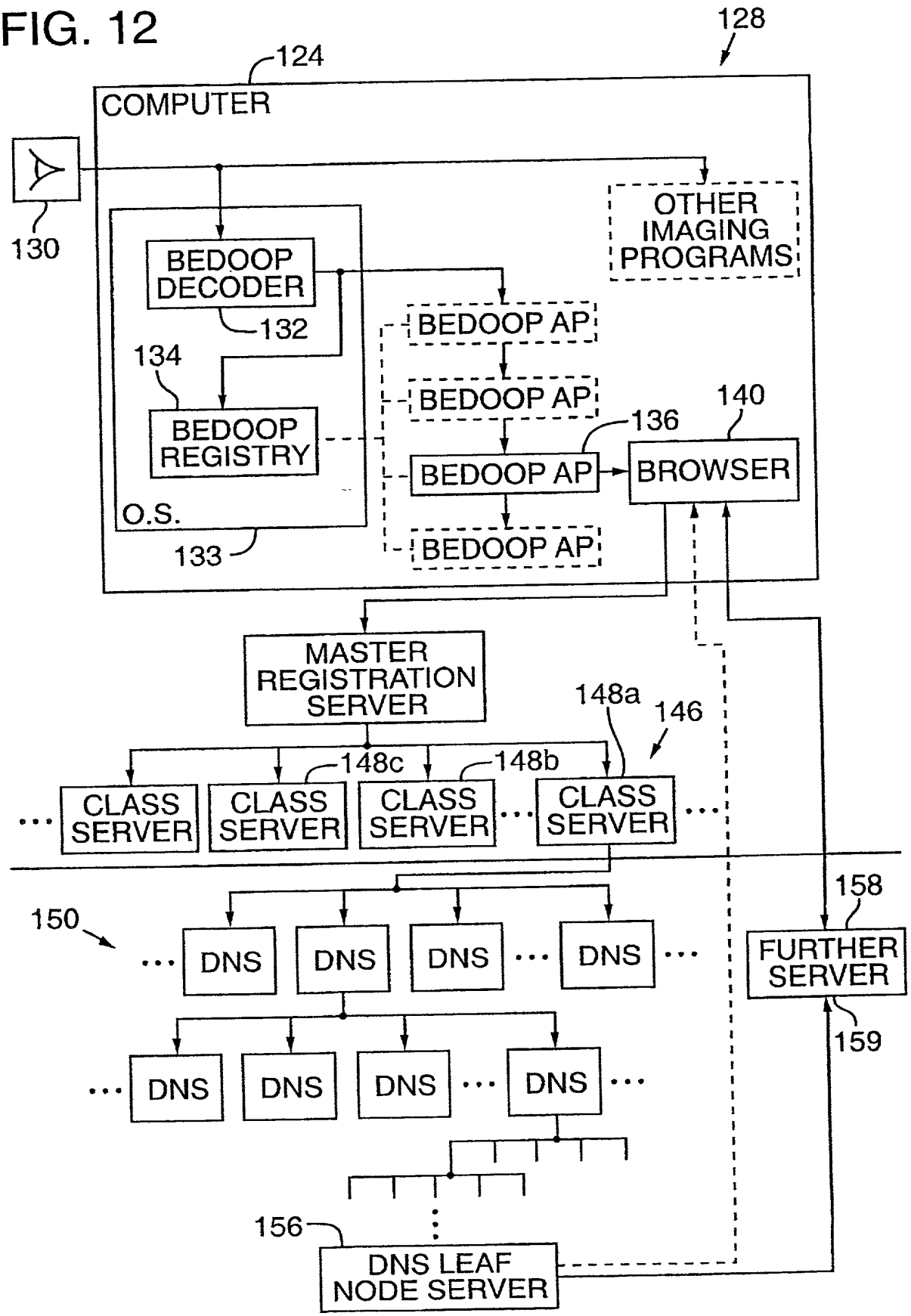


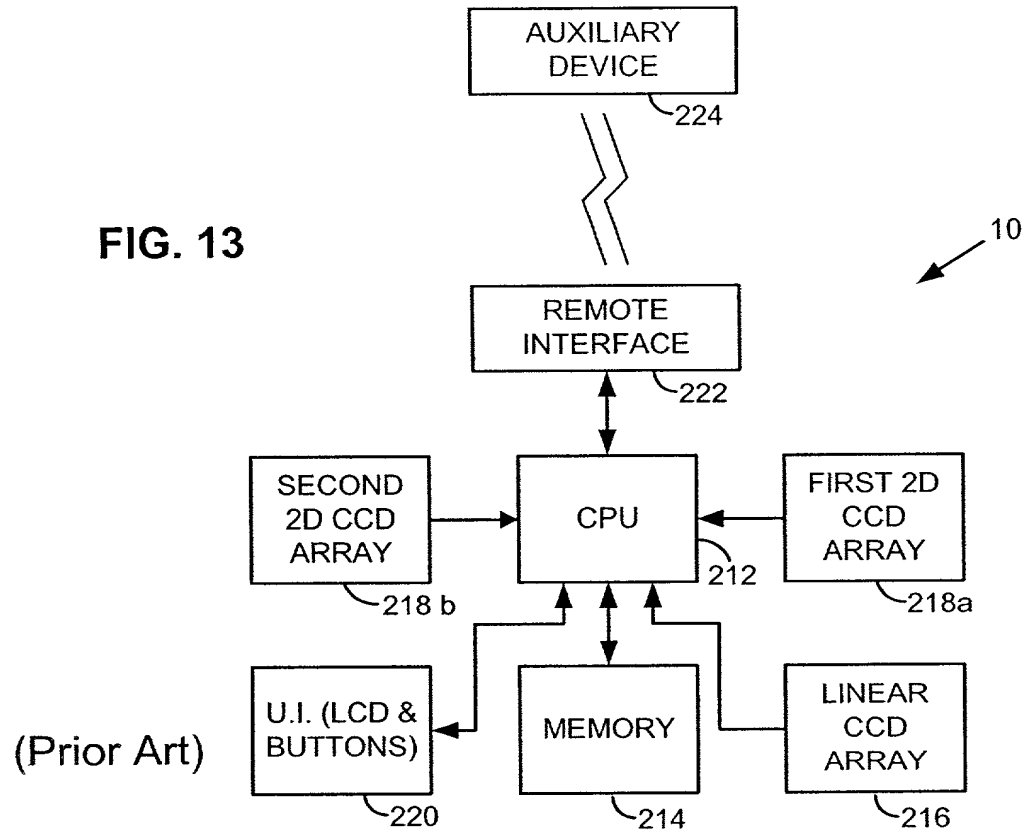
FIG. 11

FIG. 12



Docket No. 95-1-009

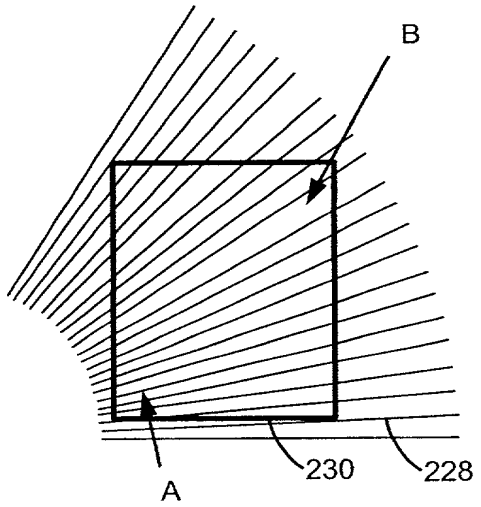
FIG. 13

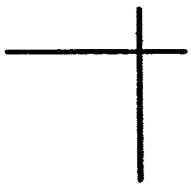


(Prior Art)

Docket No. 80135

FIG. 14





Grid Orientation Under
CCD 218a

Grid Orientation Under
CCD 218b

FIG. 15

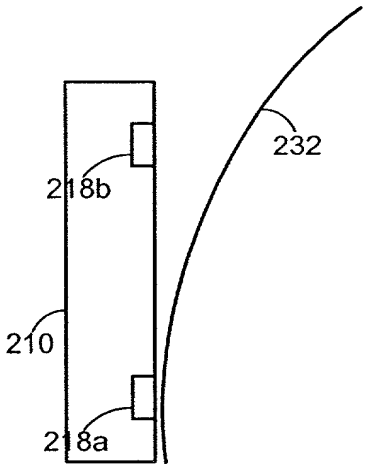


FIG. 16

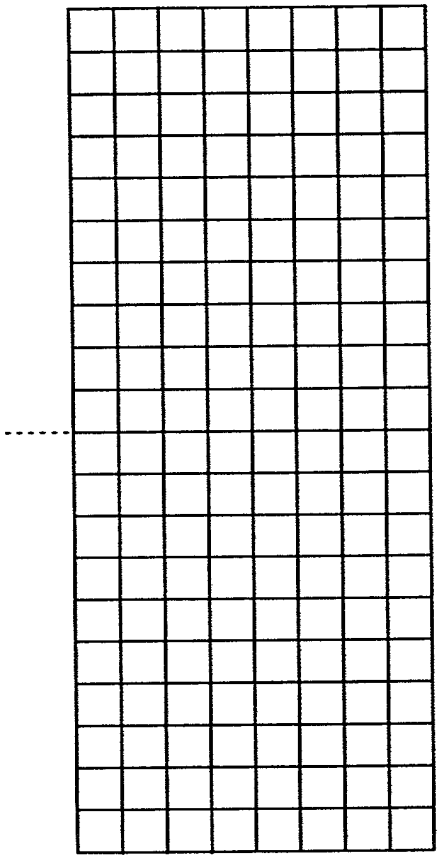


FIG. 17
(Prior Art)

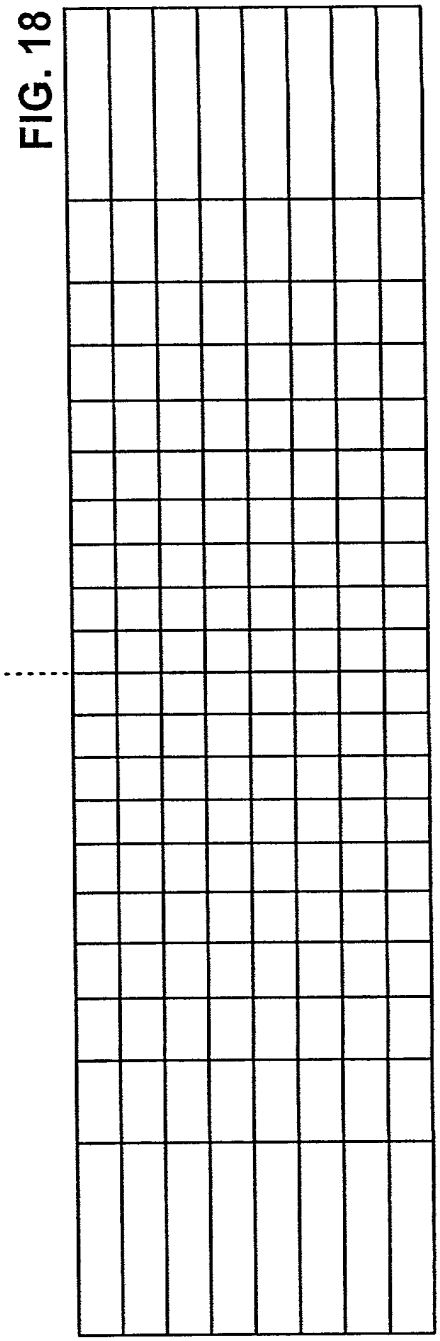


FIG. 18

POSTED: 9SEP13360

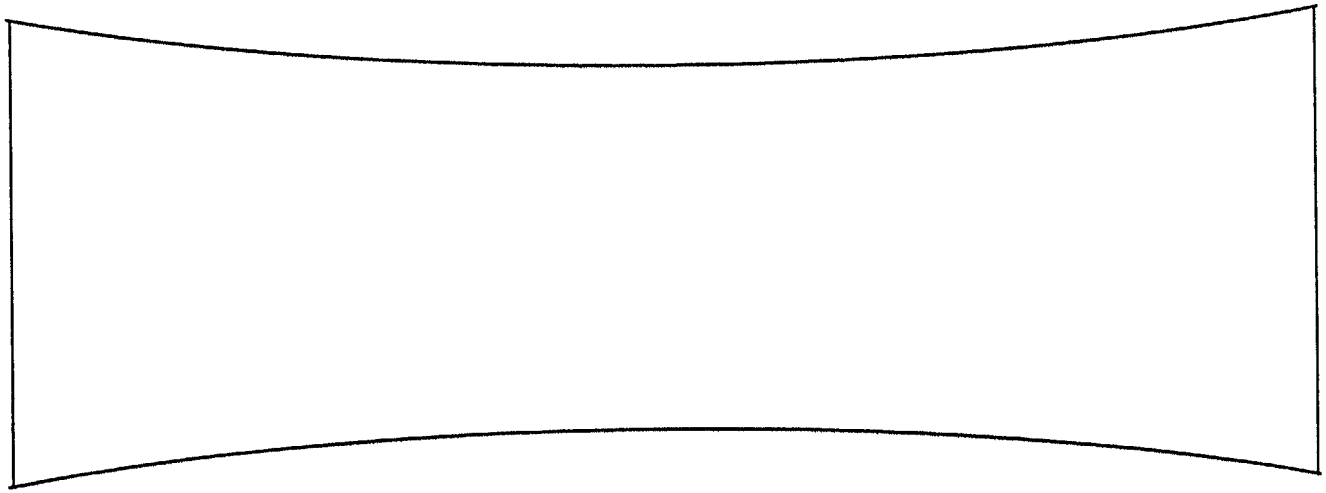


FIG. 19

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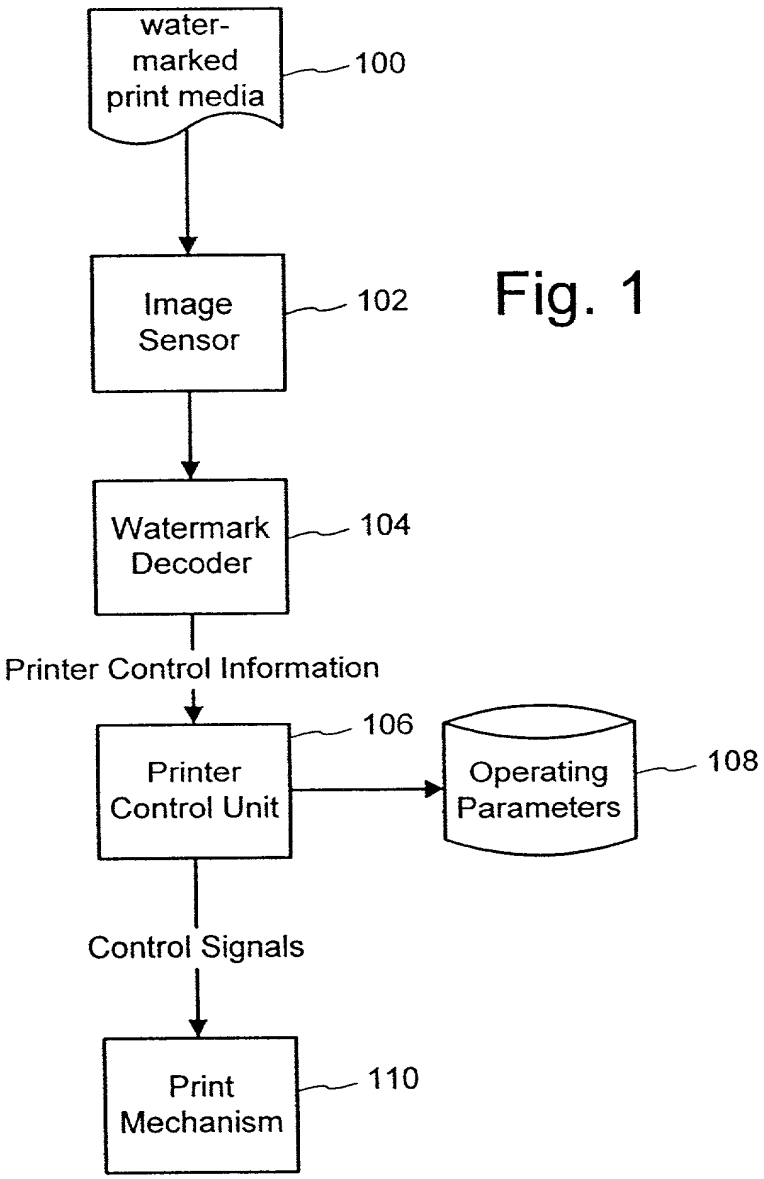


Fig. 1

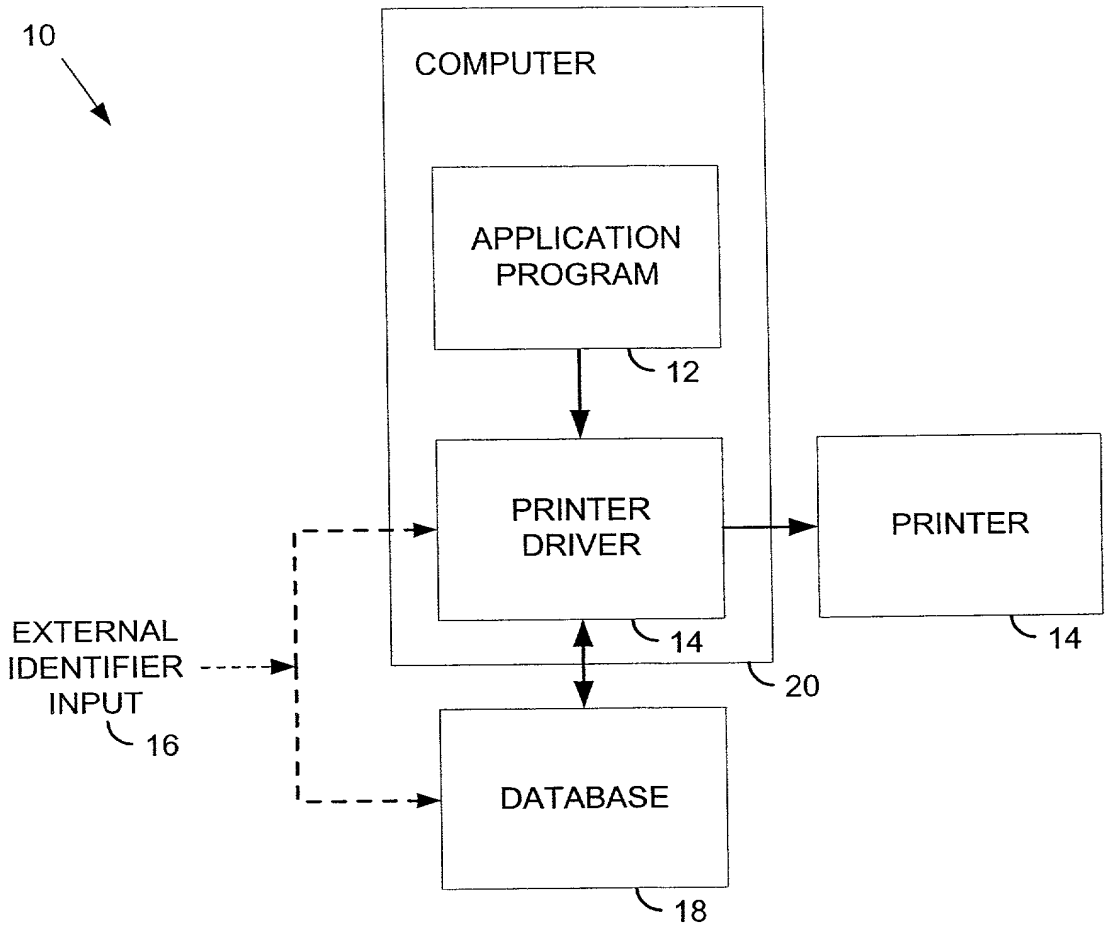

10
COMPUTER
APPLICATION PROGRAM
12
PRINTER DRIVER
PRINTER
14
14
EXTERNAL IDENTIFIER INPUT
16
20
DATABASE
18

FIG. 1

Customer Support

Find all the information you need to start using Digimarc MediaBridge.

Frequently asked questions about Digimarc MediaBridge:
how it works, what it can do, and how to get the most out of it.

If you have questions or comments about Digimarc MediaBridge, we're here to help. Please direct your emails to Customer Care Group or call 1-877-477-9992 and ask for Digimarc MediaBridge Customer Service.

We recommend the following Intel cameras:

Intel PC Camera Pro Pack
Intel PC Camera Pack

These cameras are approved for Digimarc MediaBridge use:

Intel PC Camera Pro Pack
Intel PC Camera Pack
Philips Vesta Pro (PCVC680K)
Philips Vesta (PCVC675K)
3Com HomeConnect - (Mac users, Click here for camera drivers)

See which cameras work with your operating system.

Fig. 2

IDENTIFIER	TEXT EXCERPT	ASSOCIATED HYPERLINK
186282A	Frequently asked questions about Digimarc MediaBridge:	http://www.digimarc.com/mediabridge/mbco_csfaq.shtml
186282B	Customer Care Group	mailto:helpdesk@digimarc.com
186282C	Intel PC Camera Pro Pack	http://www.intel.com/pccamera/index.htm?iid=prodinfo+video03&
186282D	Intel PC Camera Pack	http://www.intel.com/pccamera/pack.htm?iid=prodinfo+video03&
186282E	Click here	http://www.3com.com/client/pcd/homeconnect/pcdigital/drivers.html#b
186282F	See	http://www.digimarc.com/mediabridge/mbco_cmatrix.shtml

Fig. 3

Figure 1

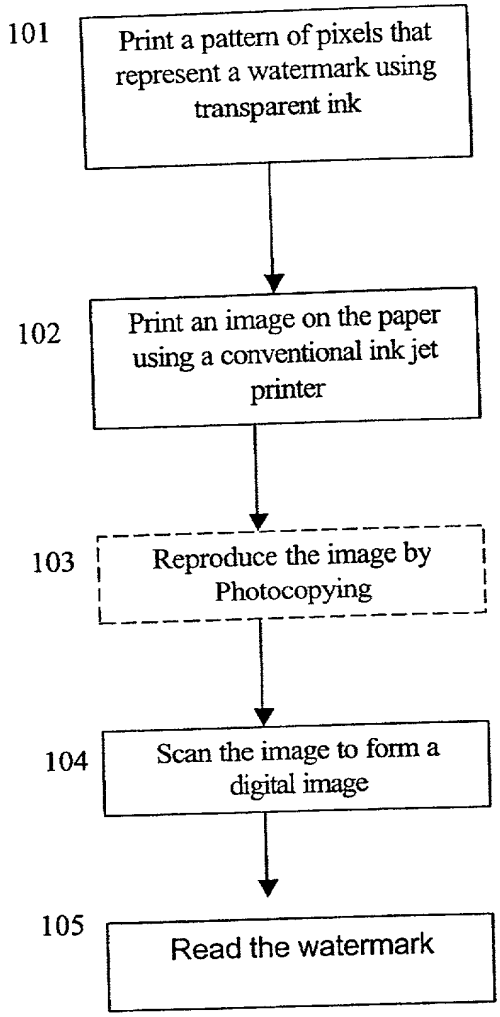
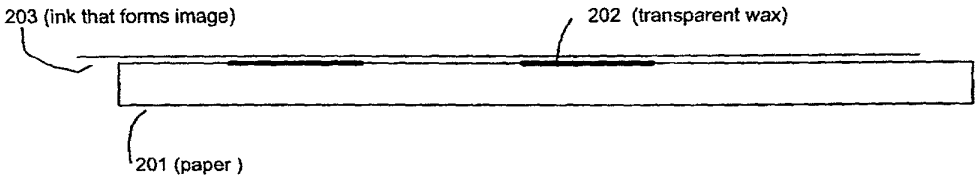
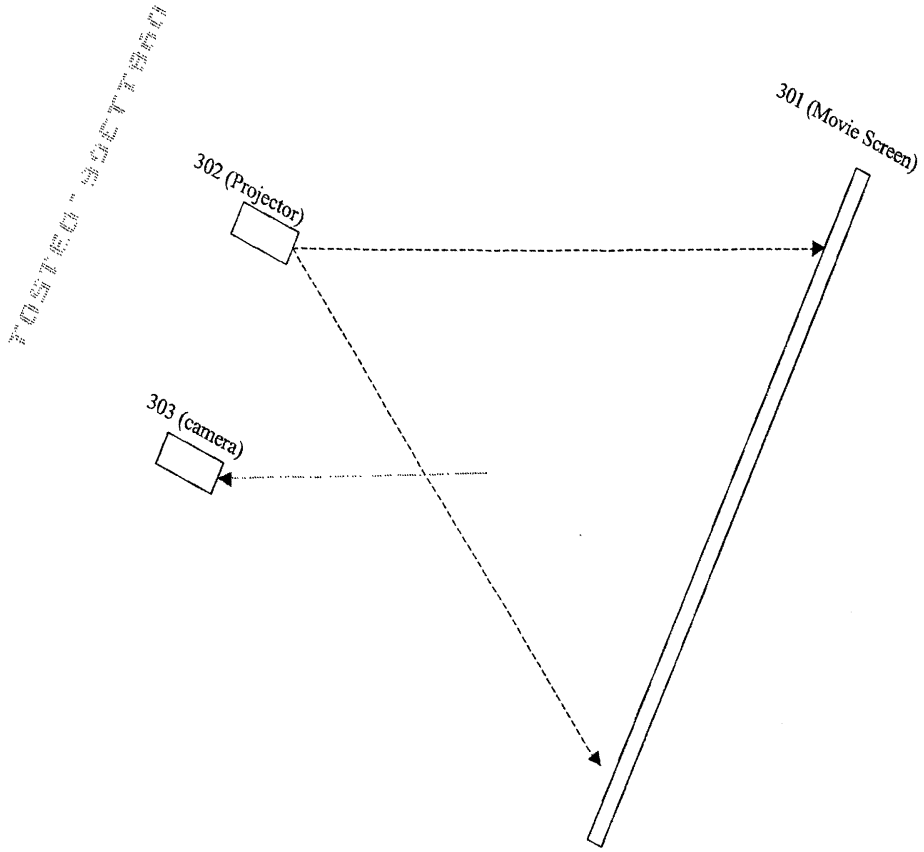

101
Print a pattern of pixels that represent a watermark using transparent ink
102
Print an image on the paper using a conventional ink jet printer
103
Reproduce the image by Photocopying
104
Scan the image to form a digital image
105
Read the watermark

Figure 2



Docket No. 20040

Figure 3



APPENDIX L DRAWINGS

Figure 4

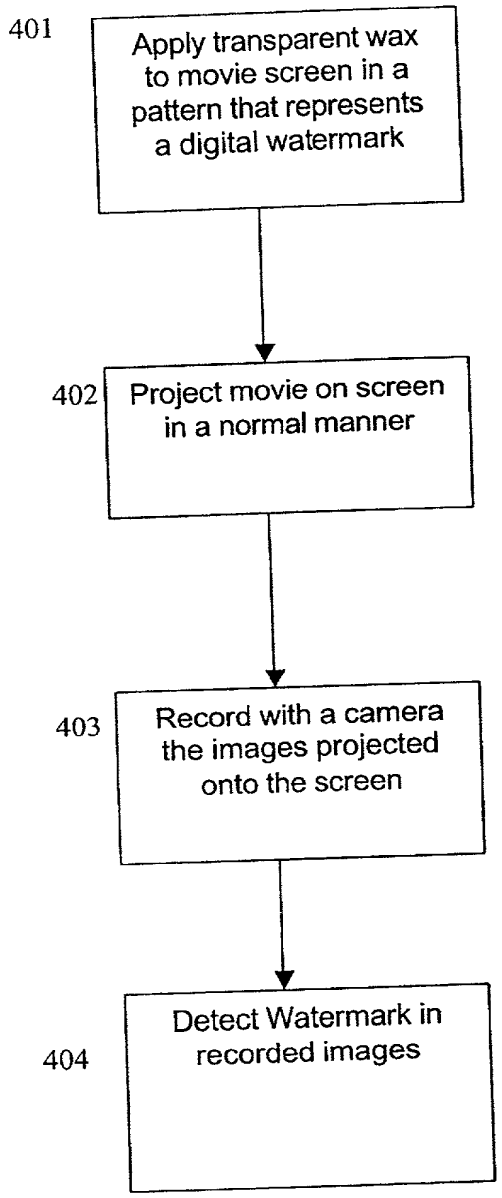


Exhibit - Subject to Protective Order